

PRODUCT CATALOG

LABORATORY / INDUSTRIAL







A&D Weighing has been providing industry-leading precision weighing and measurement equipment in both laboratories and manufacturing facilities across the world for over 40 years. We offer a complete line of electronic laboratory balances, industrial digital scales, weighing indicators and controllers, load cells, and non-destructive measurement equipment. We specialize in providing measurement solutions for a wide variety of industries such as, Academia, Food & Beverage, Cannabis, Chemical, Pharmaceutical and Manufacturing. Each piece of equipment passes through the highest of quality standards at our ISO 9001 certified facilities.



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○ = Option

Product Selector-Laboratory

| Z) | | | Features | | | | | |
|-------------------|-----------------|-----------|----------|-----------|-----------|---------|----------|-----------|
| Resolution (g) | Capacity (g) | Model | Page | Int. cal. | Ext. cal. | RS-232 | Battery | IP Rating |
| 0.001mg | 22g | BM-20 | | • | | • + USB | | |
| 0.01mg | 42g | GR-202 | | • | | • | | |
| 0.01mg | 51g | HR-202i | | | • | • | | |
| 0.01mg | 250g | BM-252 | ļ | • | | • + USB | | |
| 0.1mg | 101g | GH-252 | | • | | • | | |
| 0.1mg | 102g | HR-100A | | | | • | OPT Rec | |
| 0.1mg | 102g | HR-100AZ | | • | | • | OPT Rec | |
| 0.1mg | 120g | GH-120 | | • | | • | | |
| 0.1mg | 120g | GR-120 | | • | | • | | |
| 0.1mg | 152g | HR-150A | | | • | • | OPT Rec | |
| 0.1mg | 152g | HR-150AZ | | • | | • | OPT Rec | |
| 0.1mg | 220g | BM-200 | | • | | • + USB | | |
| 0.1mg | 210g | GH-200 | | • | | • | | |
| 0.1mg | 210g | GR-200 | | • | | • | | |
| 0.1mg | 220g | HR-202i | | | • | • | | |
| 0.1mg | 252g | HR-250A | | | • | • | OPT Rec | |
| 0.1mg | 252g | HR-250AZ | | • | | • | OPT Rec | |
| 0.1mg | 62g | HR-251A | | | • | • | OPT Rec | |
| 0.1mg | 62g | HR-251AZ | | • | | • | OPT Rec | |
| 0.1mg | 320g | BM-300 | | • | | • + USB | | |
| 0.1mg | 310g | GH-300 | | • | | • | | |
| 0.1mg | 310g | GR-300 | | • | | • | | |
| 0.1mg | 320g | HR-300i | | | • | • | | |
| 0.1mg | 520g | BM-500 | | • | | • + USB | | |
| 0.1mg | 1100g | MC-1000 | | • | | • | | |
| 0.001g | 252q | HR-251A | | | • | • | OPT Rec | |
| 0.001g | 252g | HR-251AZ | | • | | • | OPT Rec | |
| 0.001g | 120g | GF-123A | | | • | | | |
| 0.001g | 120g | EJ-123 | | | • | • | Dry Cell | |
| 0.001g | 122g | FX-120i | | | • | | OPT Rec | |
| 0.001g | 122g | FX-120iWP | | | | | OPT Rec | IP65 |
| 0.001g | 122g | FZ-120i | | | | | OPT Rec | 00 |
| 0.001g | 220g | GX-203A | | | | | 01 1 100 | |
| 0.001g | 220g | GF-203A | | | | | | |
| 0.001g | 220g | FX-200i | | | | | OPT Rec | |
| 0.001g | 220g | FX-200iWP | | | | | OPT Rec | IP65 |
| 0.001g | 310g | EJ-303 | | | | | Dry Cell | 11 00 |
| | - | GX-303A | | | | | Dry Cell | |
| 0.001g | 320g | GF-303A | | | | | | |
| 0.001g | 320g | | | | | | ODT Dee | |
| 0.001g | 320g | FX-300i | | | | | OPT Rec | IDOF |
| 0.001g | 320g | FX-300iWP | | | • | • | OPT Rec | IP65 |
| 0.001g | 320g | FZ-300iWP | | | | | OPT Rec | IP65 |
| 0.001g | 420g | GX-403A | | • | | • | | |
| 0.001g | 420g | GF-403A | | | | • | | |
| 0.001g | 520g | FX-500i | | | • | • | OPT Rec | |
| 0.001g | 520g | FZ-500i | | • | | • | OPT Rec | |
| 0.001g | 620g | GX-603A | | • | | • | | |
| 0.001g | 620g | GF-603A | | | • | • | | |
| 0.001g | 1100g | GX-1003A | | • | | • | | |
| 0.001g | 1100g | GF-1003A | | | • | • | | |
| 0.001g | 1620g | GX-1603A | | • | | • | | |
| 0.001g | 1620g | GF-1603A | | | • | • | | |
| 0.001g | 6100g | MC-6100 | | • | | • | | |
| 0.001g | 10.1Kg | MC-10K | | • | | • | | |
| 0.01g | 30g | EW-150i | | | • | • | OPT Rec | |
| 0.01g | 120g | EJ-120 | | | • | • | Dry Cell | |
| 0.01g | 200g | EK-200i | | | • | • | OPT Rec | |
| 0.01g | 210g | EJ-200 | | | • | • | Dry Cell | |
| 0.01g | 300g | EK-300i | | | • | • | OPT Rec | |
| 0.01g | 300g | EK-300EP | | | | | Dry Cell | FM |
| 0.01g | | | | | | | Dry Cell | |
| | 310g | EJ-300 | | | | | - | |
| 0.01g | 400g | EK-410i | | | • | | OPT Rec | |
| 0.01g | 410g | EJ-410 | | | • | | Dry Cell | |
| 0.01g | 610g | EJ-610 | | | • | | Dry Cell | |
| 0.01g | 1210g | GX-1202A | | | | | | |

| Z. | 0 | | | | | Fea | atures | |
|-------------------|-----------------|------------|------|-----------|-----------|--------|----------|-----------|
| Resolution (g) | Capacity (g) | Model | Page | Int. cal. | Ext. cal. | RS-232 | Battery | IP Rating |
| 0.01g | 1210g | GF-1202A | | | • | • | | |
| 0.01g | 1220g | FX-1200i | | | • | • | | |
| 0.01g | 1220g | FX-1200iWP | | | • | • | | IP65 |
| 0.01g | 1220g | FZ-1200iWP | | • | | • | | IP65 |
| 0.01g | 2200g | GX-2002A | | • | | • | | |
| 0.01g | 2200g | GF-2002A | | | • | • | | |
| 0.01g | 2100g | GX-8K2 | | | | • | | IP65 |
| 0.01g | 2100g | GF-8K2 | | | • | • | | IP65 |
| 0.01g | 2200g | FX-2000i | | | • | • | OPT Rec | |
| 0.01g | 2200g | FX-2000iWP | | | • | • | OPT Rec | IP65 |
| 0.01g | 3200g | GF-3002A | | | | • | | |
| 0.01g | 3200g | FX-3000i | | | • | • | OPT Rec | |
| 0.01g | 5200g | FX-5000i | | | • | • | OPT Rec | |
| 0.01g | 5200g | FZ-5000i | | • | | • | OPT Rec | |
| 0.01g | 6200g | GX-6002A | | • | | • | | |
| 0.01g | 6200g | GF-6002A | | | • | • | | |
| 0.01g | 8100g | GX-8K | | | | • | | IP65 |
| 0.01g | 8100g | GF-8K | | | • | • | | IP65 |
| 0.01g | 10.1Kg | GX-10K | | • | | • | | IP65 |
| 0.01g | 10.1Kg | GF-10K | | | • | • | | IP65 |
| 0.01g | 31Kg | MC-30K | | | | • | | |
| 0.1g | 300g | EW-1500i | | | • | • | OPT Rec | |
| 0.1g | 1200g | EK-1200i | | | • | • | OPT Rec | |
| 0.1g | 1500g | EJ-1500 | | | • | • | Dry Cell | |
| 0.1g | 2000g | EK-2000i | | | • | • | OPT Rec | |
| 0.1g | 2100g | EJ-2000 | | | • | • | Dry Cell | |
| 0.1g | 3000g | EK-3000i | | | • | • | OPT Rec | |
| 0.1g | 3000g | EK-30KL | | | • | • | OPT Rec | |
| 0.1g | 3000g | EK-3000EP | | | • | | Dry Cell | FM |
| 0.1g | 3100g | EJ-3000 | | | • | • | Dry Cell | |
| 0.1g | 4000g | EK-4100i | | | • | • | OPT Rec | |
| 0.1g | 4100g | EJ-4000 | | | • | • | Dry Cell | |
| 0.1g | 6000g | EK-6100i | | | | • | OPT Rec | |
| 0.1g | 6100g | EJ-6100 | | | • | • | Dry Cell | |
| 0.1g | 6100g | GX-6001A | | • | | • | | |
| 0.1g | 6100g | GF-6001A | | | • | • | | |
| 0.1g | 6100g | GX-32K | | | | • | | IP65 |
| 0.1g | 6100g | GF-32K | | | • | • | | IP65 |
| 0.1g | 6100g | GP-32KS | | • | | • | | IP65 |
| 0.1g | 8100g | GX-8K2 | | • | | • | | IP65 |
| 0.1g | 8100g | GF-8K2 | | | | • | | IP65 |
| 0.1g | 12Kg | GX-12K | | • | | • | | IP65 |
| 0.1g | 12Kg | GF-12K | | | | • | | IP65 |
| 0.1g | 21Kg | GX-20K | | • | | • | | IP65 |
| 0.1g | 21Kg | GF-20K | | | | • | | IP65 |
| 0.1g | 31Kg | GX-30K | | • | | • | | IP65 |
| 0.1g | 31Kg | GF-30K | | | | | | IP65 |
| 0.1g | 31Kg | GP-30KS | | • | | • | | IP65 |
| 0.1g | 61Kg | GP-61K | | • | | | | IP65 |
| 0.1g | 61Kg | GP-61KS | | • | | • | | IP65 |
| 0.1g | 101Kg | MC-100KS | | • | | | | ID0= |
| 0.5g | 41Kg | GP-40K | | • | | | OPTO | IP65 |
| 1g | 3000g | EW-12Ki | | | | | OPT Rec | |
| 1g | 6000g | EK-6000i | | | • | • | OPT Rec | |
| 1g | 12Kg | EK-12Ki | | | | | OPT Rec | F1.4 |
| 1g | 12Kg | EK-12KEP | | | • | | Dry Cell | FM |
| 1g | 31Kg | GX-32K | | | | | | IP65 |
| 1g | 31Kg | GF-32K | | | • | • | | IP65 |
| 1g | 31Kg | GP-32KS | | | | | | IP65 |
| 1g | 61Kg | GP-60KS | | • | | | | IP65 |
| 1g | 101Kg | GP-100KS | | | | | | IP65 |

Product Selector-Industrial

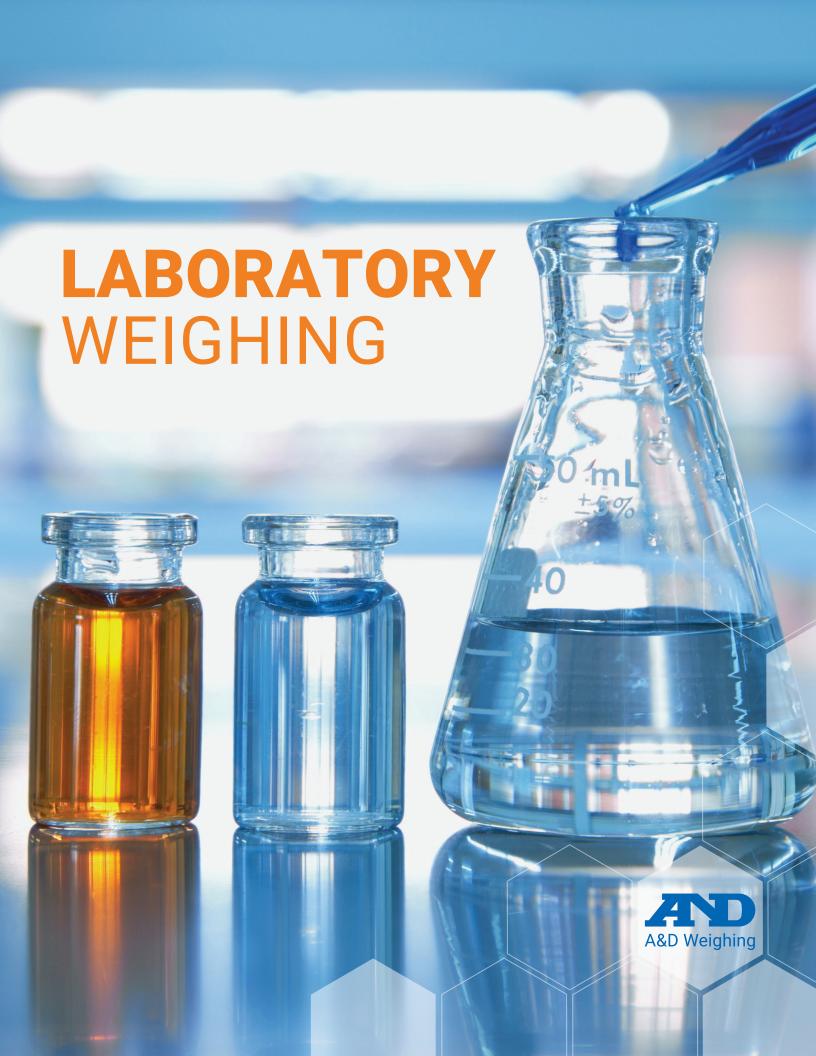
| ZJ | | | | | F | eatures | | |
|-----------------------|---------------------|------------------------------|------|--------------------|--------|-------------------|-----------|------|
| Resolution (lbs/g) | Capacity (lbs/g) | Model | Page | Legal for Trade | RS-232 | Battery | IP Rating | NSF |
| 0.001mg | 21g | AD-4212B-23 | | | • | | | |
| 0.01mg | 31g | AD-4212B-101 | | | • | | | |
| 0.01mg | 110g | AD-4212B-102 | | | • | | IDOS | |
| 0.1mg | 51g | AD-4212C-301 | | | • | | IP65 | |
| 0.1mg | 110g | AD-4212A-100 | | | • | | | |
| 0.1mg 0.1mg | 110g 210g | AD-4212B-101 AD-4212B-201 | | | | | | |
| 0.1mg | 310g | AD-4212B-301 | | | | | | |
| 0.001g | 210g | AD-4212A-200 | | | | | | |
| 0.001g | 320q | AD-4212C-301 | | | • | | IP65 | |
| 0.001g | 320g | AD-4212C-300 | | | • | | IP65 | |
| 0.001g | 510g | AD-4212C-3100 | | | • | | IP65 | |
| 0.001g | 610g | AD-4212A-600 | | | • | | | |
| 0.001g | 620g | AD-4212C-600 | | | • | | IP65 | |
| 0.001g | 1100g | AD-4212A-1000 | | | • | | | |
| 0.01g | 120g | HT-120 | | | | Dry Cell | | |
| 0.01g | 3200g | AD-4212C-3100 | | | • | | IP65 | |
| 0.01g | 3200g | AD-4212C-3000 | | | • | | IP65 | |
| 0.01g | 6200g | AD-4212C-6000 | | | • | 007.0 | IP65 | |
| 0.00005lb/ 0.02g | | FC-500Si | | | •+0 | OPT Rec | | |
| 0.0001lb/ 0.05g | 1lb/500g | FC-500i | | | •+0 | OPT Rec | | |
| 0.1g | 100g | PV-100 | | | | Dry Cell | | |
| 0.1g | 150g | HJ-150 PV-200 | | | | Dry Cell | | |
| 0.1g 0.1g | 200g 200g | HL-200i/VP | | | | Dry Cell Dry Cell | | |
| 0.1g | 300g | HL-300WP | | | | Dry Cell | IP65 | NSF |
| 0.1g | 310g | HT-300/CL | | | | Dry Cell | 11 00 | 1401 |
| 0.1g | 500g | PV-500 | | | | Dry Cell | | |
| 0.1g | 510g | HT-500/CL | | | | Dry Cell | | |
| 0.0002lb/ 0.1g | 2lb/ 1000g | FC-1000i | | | •+0 | OPT Rec | | |
| 0.0002lb/ 0.1g | 6.6lb/ 3000g | SJ-3000WP | | Winter 2019 | | Dry Cell | IP67 | NSF |
| /0.1g | 15Kg | EK-15KL | | | • | OPT Rec | | |
| 0.0005lb/ | 5lb/ | FC-2000i | | | ● + ○ | OPT Rec | | |
| 0.2g 0.0005lb/ | 2000g 10lb/ | FC-5000Si | | | • + 0 | OPT Rec | | |
| 0.2g 0.0005lb/ | 5000g 13lb/ | SJ-6000WP | | Winter | | Dry Cell | IP67 | NSF |
| 0.2g 0.001lb/ | 6000g 2.2lb/ | SJ-1000HS | | 2019 | | Dry Cell | | NSF |
| 0.5g 0.001lb/ | 1000g 2.2lb/ | HL-1000WP | | | | Dry Cell | IP65 | NSF |
| 0.5g 0.001lb/ | 1000g 2.2lb/ | SK-1000WP | | NTEP/MC | | Dry Cell | IP65 | NSF |
| 0.5g 0.001lb/ | 1000g 6lb/ | HC-3Ki | | | 0 | OPT Rec | | |
| 0.5g 0.001lb/ | 3000g 10lb/ | FC-5000i | | | •+0 | OPT Rec | | |
| 0.5g 0.001lb/ | 5000g 15lb/ | FS-6Ki | | NTEP/MC | 0 | OPT Rec | IP65 | NSF |
| 0.5g 0.001lb/ | 6000g 33lb/ | SJ-15KWP | | Winter | | Dry Cell | IP67 | NSF |
| 0.5g 0.002lb/ | 15kg 4.4lb/ | SJ-2000HS | | 2019 | | Dry Cell | | NSF |
| 1g 1g | 2000g 2000g | HL-2000i/VP | | | | Dry Cell | | |
| 0.002lb/1g | | SK-2000WP | | NTEP/MC | | Dry Cell | IP65 | NSF |
| 0.002lb/1g | | HL-3000(L)WP | | | | Dry Cell | IP65 | NSF |
| 0.002lb/1g | _ | HL-3000(L) WPN | | | | Dry Cell | IP65 | NSF |
| 1g | 3100g | HT-3000/CL | | | | Dry Cell | | |
| 0.002lb/1g | 11lb/ 5000g | SJ-5001HS | | | | Dry Cell | | NSF |
| 1g | 5000g | SK-5001WP | | NTEP/MC | | Dry Cell | IP65 | NSF |
| 1g | 5100g | HT-5000/CL | | | | Dry Cell | | |
| - | - 3 | | | | | , | | |

| 20 | 0 | | | Features | | | | |
|--------------------------|---------------------|--------------------------|------|--------------------|--------|---------------------|--------------------|-----|
| esolution (lbs/g) | Capacity (lbs/g) | Model | Page | Legal for Trade | RS-232 | Battery | IP Rating | NSF |
| 0.002lb/1g | 15lb/ 6000g | HC-6Ki | | | 0 | OPT Rec | | |
| 0.002lb/1g | 13lb/ 6000g | SW-6K | | NTEP/MC | 0 | Dry Cell OPT Rec | IP69K | NSF |
| 0.002lb/1g 0.002lb/1g | | FC-10Ki HW-10KCEP | | | • + 0 | OPT Rec Dry Cell | IP65 | |
| 0.002lb/1g | 10Kg 35lb/15Kg | FS-15Ki | | NTEP/MC | 0 | OPT Rec | (Platform) | NSF |
| 1g | 30Kg | EK-30KL | | | • | OPT Rec | | |
| 0.002lb/1g | 66lb/ 30Kg | SJ-30KWP | | Winter 2019 | | Dry Cell | IP67 | NSF |
| 0.005lb/2g | 11lb/ 5000g | SJ-5000HS | | | | Dry Cell | | NSF |
| 0.005lb/2g | 11lb/ 5000g | SK-5000WP | | NTEP/MC | | Dry Cell | IP65 | NSF |
| 0.005lb/2g | 30lb/12kg | HD-12K | | | 0 | OPT Rec | | |
| 0.005lb/2g | 30lb/15Kg | HC-15Ki | | | 0 | OPT Rec | | |
| 0.005lb/2g | 33lb/15Kg | SW-15K | | NTEP/MC | 0 | Dry Cell OPT Rec | IP69K | NSF |
| | · · | FC-20Ki | | | •+0 | OPT Rec | | |
| 0.005lb/2g | 60lb/30Kg | FG-30KBM/ KAM | | | 0 | Dry Cell | | |
| 0.005lb/2g | 70lb/30Kg | FS-30Ki | | NTEP/MC | 0 | OPT Rec | IP65 | NSF |
| 0.01lb/5g | 22lb/10kg | SK-10KWP | | NTEP/MC | | Dry Cell | IP65 | NSF |
| 0.01lb/5g | 26lb/12Kg | SJ-12KHS | | | | Dry Cell | | NSF |
| 0.01lb/5g | 60lb/30kg | HC-30Ki | | | 0 | OPT Rec | | |
| 0.01lb/5g | 60lb/30kg | HD-30K | | | 0 | OPT Rec | | |
| 0.01lb/5g | 66lb/30Kg | SE-30K | | NTEP/MC | 0 | Dry Cell | IP68 | |
| 0.01lb/5g | 66lb/30Kg | SC-30K | | NTEP/MC | 0 | Dry Cell | IP68 | |
| 0.01lb/5g | 66lb/30Kg | SW-30K | | NTEP/MC | 0 | Dry Cell OPT Rec | IP69K | NSF |
| 0.01lb/5g | 100lb/ 50Kg | FC-50Ki | | | •+0 | OPT Rec | | |
| 0.01lb/5g | 150lb/ 60Kg | FG-60KBM/ KAM/KAL | | | 0 | Dry Cell | | |
| 0.01lb/5g | 150lb/ 60Kg | HW-60KCEP | | | | Dry Cell | IP65 (Platform) | |
| Ü | | SK-20KWP | | NTEP/MC | | Dry Cell | IP65 | NSF |
| 0.02lb/10g | 44lb/20Kg | SJ-20KHS | | | | Dry Cell | | NSF |
| 0.02lb/10g | 60lb/ 30Kg | FG-30KBMN/ KAMN | | NTEP/MC | 0 | Dry Cell | | |
| 0.02lb/10g | 120lb/ 60kg | HD-60K | | | 0 | OPT Rec | | |
| | 60Kg | SE-60K | | NTEP/MC | 0 | Dry Cell | IP68 | |
| 0.02lb/10g | 60Kg | SC-60K | | NTEP/MC | | Dry Cell | IP68 | NOT |
| | 60Kg | SW-60K | | NTEP/MC | 0 | OPT Rec | IP69K | NSF |
| 0.02lb/10g | 100Kg | HW-100KCEP | | | 0 | Dry Cell | IP65 (Platform) | |
| 0.02lb/10g | 150Kg | FG-150KBM/ KAM/KAL | | | 0 | Dry Cell | | |
| | 200kg | FG-200KAL | | | 0 | Dry Cell | | NCE |
| | 66lb/30Kg 150lb/ | SJ-30KHS FG-60KBMN/ | | NTED/MC | 0 | Dry Cell | | NSF |
| 0.05lb/20g | 60Kg | KAMN/KALN | | NTEP/MC | 0 | Dry Cell | | |
| 0.05lb/20g | 150Kg | SW-150K | | NTEP/MC | 0 | OPT Rec | IP69K | NSF |
| 0.05lb/20g | 50Kg | SE-150K | | NTEP/MC | 0 | Dry Cell | IP68 | |
| 0.05lb/20g | 150Kg | SC-150K | | NTEP/MC | 0 | Dry Cell | IP68 | |
| 0.05lb/20g | 200Kg | HW-200KCEP | | NITED#10 | | Dry Cell | IP65 (Platform) | |
| 0.1lb/50g | 300lb/ 150Kg | FG-150KBMN/ KAMN/KALN | | NTEP/MC | | Dry Cell | | |
| 0.1lb/50g | 400lb/ 200Kg | FG-200KALN | | NTEP/MC | 0 | Dry Cell | | |

Table of Contents

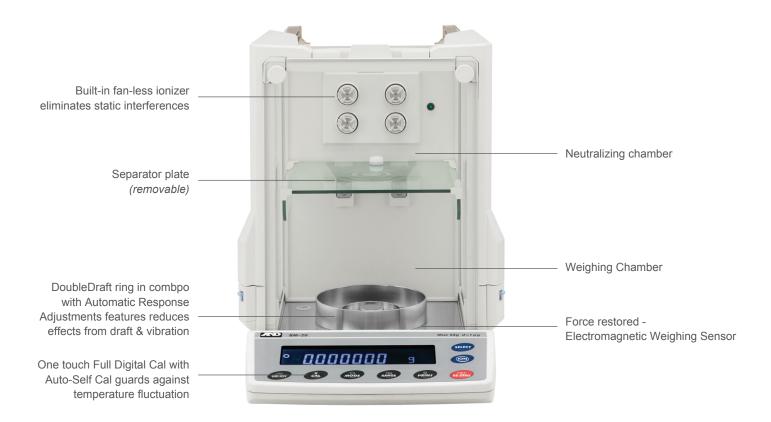
| Laboratory Weighing | | High Pressure Washdown Platform Scales | 47 |
|---|----------|---|----------|
| Micro-Balances | 6 | SW Series - IP69K | 47 |
| Ion BM Series | 6 | Washdown Platform Scales | 48 |
| Semi-Micro Analytical | 9 | • SC/SE - IP68 | 48 |
| • Ion BM Series | 9 | • HV/HW-WP - IP65 | 50 |
| Phoenix [™] GH Series | 10 | Intrinsically Safe Platform Scales | 51 |
| Gemini GR Series | 11 | HW-CEP Series | 51 |
| Galaxy HR-A/AZ Series | 12 | Checkweighing Scales | 52 |
| Milligram & Precision | 14 | FS-i Series - IP65 Checkweighing Scales | 52 |
| Apollo GX-A/GF-A Series | 14 | Counting Scales | 53 |
| GF-N & P Series | 16 | HC-i Series - Counting Scales | 53 |
| • FZ/FX Series | 17 | HD Series - Counting Scales | 54 |
| FX-iN/NC Series | 18 | FC-i/FC-Si High-Performance Counting Scales | 55 |
| FX & FX-WP, FZ & FZ-WP Series | 19 | | |
| Newton EJ Series | 20 | Weighing Components | |
| Compact Balances | 21 | SB Platforms - IP65 | 57 |
| Everest EK/EW-i Series | 20 | AD-4329A Digital Weighing Indicator | 57 |
| • EK-AEP | 23 | AD-4401A Digital Weighing Indicator | 58 |
| High Capacity Balances | 24 | AD-4402 Batch Weighing Indicator | 58 |
| • GX-GF | 24 | AD-4406A Digital Weighing Indicator | 59 |
| • GX-K/GF-K | 25 | AD-4407 Digital Weighing Indicator | 59 |
| GP Series | 26 | AD-4410 High Speed Weighing Indicator | 60 |
| Mass Comparators | 28 | SW-D Digital Indicator SS D IDSE Indicator with 3 Level Comparator. | 60 61 |
| | 30 | FS-D IP65 Indicator with 3-Level Comparator AD-4212A, AD-4212B - Weighing Sensor | 62 |
| Moisture Analyzers • M-Series | 30 | AD-4212A, AD-4212B - Weighing Sensor AD-4212C - Weighing Sensor | 63 |
| | | LC - Single Point Load Cells | 64 |
| Laboratory Solutions | 32 | | |
| MPA Series Electronic Pipettes | 32 | Accessories | |
| Pipette Accuracy & Leak Testers Pheemeters I Viscometers | 33 34 | AD-8527 Quick USB Adapter | 66 |
| Rheometers Viscometers | 34 | AD-1688 Weighing Data Logger | 66 |
| Industrial Weighing | | AD-1687 Weighing Environment Logger | 66 |
| | | AD-1641 Air Flow and Environmental Logger | 66 |
| Compact Scales | 39 | AD-1683 Static Eliminator | 67 |
| HJ-150 Compact Scales | 39 | AD-1684 Electrostatic Field Meter | 67 |
| PV Compact Scales | 39 | AD-8526 RS-232 Ethernet Converter | 67 |
| HT Compact Scales | 40 | AD-1682 Rechargeable Portable Power Supply | 67 |
| HL-i Compact Scales Cl Compact Scales | 40 | AD-8922A Remote Controller AD-8020A Remote Picales | 68 |
| SJ Compact ScalesHT-CL Series Compact Scales | 41 41 | AD-8920A Remote Display ADLCL 130 Comparator Lights | 68 68 |
| | | ADI-CL130 Comparator Lights AD-8121B Dot-Matrix Printer | 68 |
| Washdown Compact Scales | 42 | AD-1192 Dot-Matrix Printer | 69 |
| HL-WP Series - IP65 Compact Scales | 42 | AD-8529PR-W Bluetoothe Dongle | 69 |
| SK-WP Series - IP65 Compact Scales SLWP Series - IP67 Chaeleusinking Banch Scales | 42 | Calibration Weights | 70 |
| SJ-WP Series - IP67 Checkweighing Bench Scales | 43 | · · | |
| Precision Bench Scales | 43 | Service | |
| EK-L Series | 43 | Extended Warranties | 72 |
| Platform Scales | 44 | Depot Repair Rates | 73 |
| HV/W-KC (P) Series | 44 | | |
| FG-K Series | 46 | All trademark and brand names belong to their respective owners. A&D reserves the modify this catalogue and product specifications without incurring any obligation. | right to |

A&D Weighing www.andweighing.com



Ion BM Series Micro-Balances





andweighing.com

- · Easy, fanless elimination of static electricity using a built-in ionizer
- · Anti-static breeze break
- · Large weighing chamber for improved usability
- Built-in temperature, humidity, and atmospheric pressure sensors
- · Interlockable slide doors allowing efficient operation with both hands
- · Motorized calibration with an internal mass:
 - » Automatically triggered based on temperature variation
 - » Triggered by operator
- Clearly visible, white-backlit LCD
- · Memory: up to 200 data sets
- AD-1688 as standard accessory: dedicated USB key to record weighing data as well as environmental parameters into MS Excel readable files
- 12 weighing units: g, mg, oz, ozt, ct, mom, dwt, GN, tael, tola, pcs (counting), %.
- · Special pans/holders for BM-20/22:
 - » Small pans for sampling minute amounts
 - » Holders for PM filters
 - » Holders for microfuge tubes
 - » Optional pipette accuracy testing kit
- Interfaces:
 - » RS-232C (standard)
 - » Quick USB (standard)
 - » Ethernet (optional)

To block drafts, A&D adopted a double ring structure around the weighing pan and two vertical shields under the separation plate. This offers more space and easier operation.

The removable separator plate enables to have one large chamber if needed.

| Model | Capacity | Resolution | Pan Size |
|-------|----------|------------|-------------------------------|
| BM-20 | 22g | 1µg | Ø 25mm |
| BM-22 | 22g/5.1g | 0.01mg/1µg | (50 and 95mm for filter pans) |

Ion BM Series **Micro-Balances**





Three interfaces are delivered as standard with the BM:

USB to PC

Digital input signal

Bidirectional RS-232C (Ethernet option available)

Example of connections to various peripherals:







Special pans for weighing PM filters



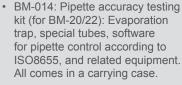




Holders for micro tubes

WinCT Plus LAN Ethernet Network HUB Ethernet

- WinCT Plus LAN Ethernet network
 - » LAN-Ethernet interface (BM-08, optional) with WinCT-Plus software: You can send commands for controlling and acquiring data to multiple balances





Standard functions

















Optional



A&D-MEET

A&D Measurement Environment Evaluation Tool



BM has built in sensors to monitor weighing conditions:



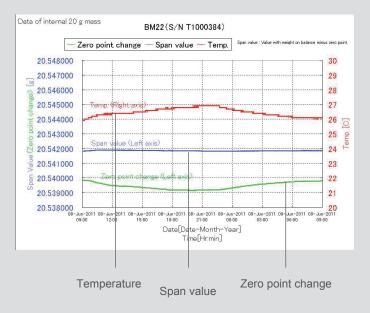
AD-1688

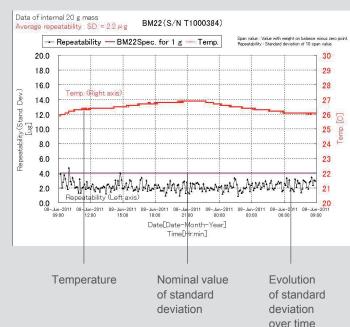
The goal is to characterize, qualify, and optimize your weighing environment in order to enable accurate micro weighing.

In conjunction with the AD-1688 data logger (supplied as standard) performance and environmental data can be recorded over a 24 hour period in order to characterize the weighing environment.

Saved data includes weight (utilising the internal calibration system) temperature, atmospheric pressure and humidity. Recorded data can then be emailed to A&D for analysis and reporting. An A&D representative will be able to provide an objective assessment of the weighing environment and discuss possible solutions with the end user where required.

Examples of graphs generated/AND-MEET with AD-1688





Ion BM Series Semi-Micro Analytical

PREMIUM

The BM analytical models have the same functional characteristics as the BM micro models. Eliminates risk with smart weighing features.





Large weighing chamber (separator plate is easy to remove).

| Model | Capacity | Resolution | Pan Size |
|--------|----------|------------|----------|
| BM-252 | 250g | 0.01mg | Ø 90mm |
| BM-200 | 220g | 0.1mg | Ø 90mm |
| BM-300 | 320g | 0.1mg | Ø 90mm |
| BM-500 | 520g | 0.1mg | Ø 90mm |

Standard functions























| Ethernet interface with WinCT-Plus software* Pipette testing kit (all models) Density measurement kit (BM-252, 200, 300, 500) Kasota Balance Table 24x35x32 | BM-08 BM-14 AD-1653 BT-3135 |
|--|--------------------------------------|
| Density measurement kit (BM-252, 200, 300, 500) Kasota Balance Table 24x35x32 | AD-1653 |
| Kasota Balance Table 24x35x32 | |
| | BT-3135 |
| Consta Dalanca Tableton Clab 20v1Ev2 | |
| Kasota Balance Tabletop Slab 20x15x3 | BT-3136 |
| Table top breeze break | AD-1672 |
| Electrostatic field meter | AD-1684 |
| Weighing Environment Logger | AD-1687 |
| Weighing Data Logger | AD-1688 |
| Tweezers for calibration weight | AD-1689 |
| Display working covers (5pcs) | AX-BM-031 |
| Centrifuge tube holder | AX-BM-032 |
| oniser electrode needles (4pcs) | AX-BM-NEEDLESET |
| Aluminium analytical pan (0.05ml, 8mm dia.) 100pcs | AX-PAN-0.05ML |
| Aluminium analytical pan (0.3ml, 12mm dia.) 100pcs | AX-PAN-0.3ML |
| Aluminium analytical pan (0.8ml, 15mm dia.) 100pcs | AX-PAN-0.8ML |
| Foot switch | SW:128 |
| Compact Printer | AD-1192 |
| Multi-function Printer | AD-8121B |
| Universal Remote Display | AD-8920A |
| Remote Controller | AD-8922A |
| AC Adapter (120V / 220V) (AC adapter comes standard with unit) | TB-648 |
| 9 pin RS-232 to USB Converter with cable | AX-USB-2920-9P |

Phoenix[™] GH Series **Semi-Micro Analytical**

CLASSIC

High performance balance to fit your workflow needs



Network CapabilityWith Option 08 (GH and HR-i Series)
or Ethernet Adapter AD-8526

accuracy & precision



 Ordinal Electromagnetic Sensor (OES) weighing technology provides the best

| Model | Capacity | Resolution | Verification Value | Pan Size |
|---------|-----------|------------|--------------------|----------|
| GH-252* | 250g/101g | 0.1/0.01mg | 1mg | Ø 90mm |
| GH-202 | 220g/51g | 0.1/0.01mg | 1mg | Ø 90mm |
| GH-300 | 320g | 0.1mg | 1mg | Ø 90mm |
| GH-200 | 220g | 0.1mg | 1mg | Ø 90mm |
| GH-120 | 120g | 0.1mg | 1mg | Ø 90mm |

^{*}Dual range

| Options & Accessories | Model |
|--|----------------|
| Quick USB interface (GH) | GH-OP-02 |
| Ethernet interface (GH) | GH-OP-08 |
| RS-232C/Ethernet converter | AD-8526 |
| Protective Cover (5 pcs) (GH/HR-i) | AX-074016035-S |
| Density measurement kit | AD-1653 |
| Rechargeable, portable power supply (external) | AD-1682 |
| Static eliminator | AD-1683 |
| Remote controller | AD-8922A |
| Remote display | AD-8920A |
| Ethernet Option for GH | GH-08 |
| Anti-theft Device G | AD-100-2 |
| Density Determination Kit | AD-1653 |
| Rechargeable Battery Pack (external) | AD-1682 |
| Universal Remote Display | AD-8920A |
| Remote Controller | AD-8922A |
| Static Eliminator | AD-1683 |
| Calibration Weight Tweezers (Pack of 5) | AD-1689 |
| Foot Switch | SW:128 |
| AC Adapter (120V / 220V) (AC adapter comes standard with unit) | TB:648 |
| USB to 9 pin RS-232 Converter | AX-USB-2920-9P |

- · Wide weighing range for 0.01mg resolution: 101g for GH-252 and 51g for HR-202i
- Antistatic glass
- One-touch auto self calibration by motor driven internal calibration mass (GH only)
- Automatic calibration when the ambient temperature changes (GH only)
- Standard RS-232C interface for printer, PC or other peripherals
- · GLP, GMP and ISO compliant
- · Data memory function (GH only)
- · ID number for GLP output
- Auto power OFF function
- Large weighing chamber of: 183mm (W) × 148.5mm (D) × 251mm (H)
- · WinCT Communications software (download)

Standard functions





Gemini GR Series Semi-Micro Analytical

TRADITIONAL

Dependable and durable to meet your standard weighing operations





- Fully automatic self calibration with one push of the CAL key or triggered by temperature change
- Easy access door with a front lever for quick and efficient access to the weighing chamber
- Automatic adjustable environment settings
- · Multiple weighing units
- Standard RS-232C communication with PC
- · Underhook weighing
- · WinCT software (download)
- · Large memory for weighing data
- Approx. 30% smaller footprint than other analytical balances
- GLP compliant



- Electromagnetic weighing technology allows consistent results
- Count on core functionality with large LCD display & space saving features
- · Easy to operate, clean, and maintain

| Model | Capacity | Resolution | Pan Size |
|---------|----------|------------|----------|
| GR-202* | 210/42g | 0.1/0.01mg | Ø 85mm |
| GR-120 | 120g | 0.1mg | Ø 85mm |
| GR-200 | 210g | 0.1mg | Ø 85mm |
| GR-300 | 310g | 0.1mg | Ø 85mm |

^{*}Dual range

| Options & Accessories | Model |
|------------------------------------|----------|
| Rechargeable portable power supply | AD-1682 |
| Density measurement kit | AD-1653 |
| Static eliminator | AD-1683 |
| Remote controller | AD-8922A |
| Remote display | AD-8920 |
| RS-232C/Ethernet converter | AD-8526 |
| Anti-theft device | AD-100-2 |

Standard functions

















Galaxy HR-A/AZ Series **Analytical Balances**



Small but mighty - a user friendly balance that fits any budget



Large breeze break with rotary sliding doors

"HR-A": external calibration "HR-AZ": internal calibration



HR-250AZ

| Model | Capacity | Resolution | Pan Size |
|----------|----------|------------|----------|
| HR-100A | 102g | 0.1mg | Ø 90mm |
| HR-150A | 152g | 0.1mg | Ø 90mm |
| HR-250A | 252g | 0.1mg | Ø 90mm |
| HR-100AZ | 102g | 0.1mg | Ø 90mm |
| HR-150AZ | 152g | 0.1mg | Ø 90mm |
| HR-250AZ | 252g | 0.1mg | Ø 90mm |

Standard functions



















(HR-251A/A7)





- · Robust construction, strong protection against dust & water
- Built-in internal calibration at the touch of a button (HR-AZ)
- · Shock absorber function
- Auto power ON/OFF function
- · B5 size footprint for use in narrow space
- · Reverse backlit LCD display for easy to read weighing results
- SCF Statistical calculation function
- Standard RS-232C
- · Fast compact SHS sensor, response time of about 2 seconds
- Quick USB interface no driver installation required (optional)
- LAN Ethernet interface with WinCT-Plus software (optional)
- · Easily removable large breeze break
- Built-in rechargeable NiMH battery pack (optional)



(HR-A7)











Galaxy HR-A/AZ Series Analytical Balances



Easily removable breeze break for easy cleaning or weighing in restricted spaces e.g. glove boxes

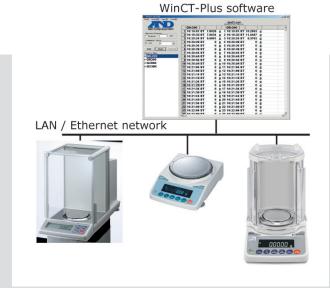






Easy removable breeze break

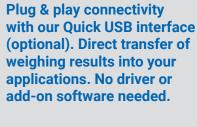
Density measurement kit



| odel |
|----------|
| (i-OP-02 |
| (i-OP-08 |
| (i-OP-09 |
| (-FX-31i |
|)-1654 |
| |

^{*} OP-02, OP-08 and OP-09 cannot be installed at the same time. Note: Connectors of optional OP-02, OP-08 and OP-09 are not IP65.







Ethernet interface (optional). Manage multiple balances through your LAN network

Apollo GX-A/GF-A Series Precision Balances



Taking Precision and Protection to New Heights





GX-A: ASC internal calibration

GF-A: external calibration

Capacit Pan Size GF-123A 128 × 128mm 0.001g GF-203A 220g 0.001g 128 × 128mm GF-303A 320g 0.001g 128 × 128mm GF-403A 420g 0.001g 128 × 128mm GF-603A 620g 0.001g 128 × 128mm GF-1003A 1100g 0.001g 128 × 128mm GF-1603A 0.001g 128 × 128mm GF-1202A 1200g 0.01g 165 × 165mm GF-2002A 0.01g 165 × 165mm 2200g GF-3002A 3200g 0.01g 165 × 165mm GF-4002A 4200g 0.01g 165 × 165mm GF-6002A 6200g 0.01g 165 × 165mm 10200g 0.01g GF-10002A 165 × 165mm 165 × 165mm GF-6001A 6200g 0.1g 165 × 165mm GF-10001A 10200g 0.1g

GF-1003A

- Advanced Weighing Technology Smart SHS weighing sensor:
 Faster Performance, Higher maintainability (low cost), Service
 Accessibility
- Improved Construction: New Reverse Backlit LCD Display, Full Metal Housing, Antistatic Breeze break, Security slot
- Multi-functional Connectivity: USB & RS232 (9pin) Bluetooth accessory
- Easy Leveling: Level me indicator, Bright-Bub (lit bubble),
- · Ergo-adjustable fly-thumbwheels
- · Accuracy Management: One-touch cal, Autoself Cal,
- Precision Management with Electronically Controlled Load (ECL) technology: allows for Diagnostic check, QuickMin-S, MinS-Alert
- Protection Management: Impact Shock Detection (ISD) allows for Impact-Alert, Shock Log, Overload protection, FR-Secure
- Good Data Management: Full GLP compliance, password protection, keylock, UFC for label printing

Apollo GX-A/GF-A Series Precision Balances





Blinking minimum weight alert



No impact shock



Level 4 impact shock

| Model | Capacity | Resolution | Pan Size |
|-----------|----------|------------|-------------|
| GX-203A | 220g | 0.001g | 128 × 128mm |
| GX-303A | 320g | 0.001g | 128 × 128mm |
| GX-403A | 420g | 0.001g | 128 × 128mm |
| GX-603A | 620g | 0.001g | 128 × 128mm |
| GX-1003A | 1100g | 0.001g | 128 × 128mm |
| GX-1603A | 1620g | 0.001g | 128 × 128mm |
| GX-2002A | 2200g | 0.01g | 165 × 165mm |
| GX-3002A | 3200g | 0.01g | 165 × 165mm |
| GX-4002A | 4200g | 0.01g | 165 × 165mm |
| GX-6002A | 6200g | 0.01g | 165 × 165mm |
| GX-10002A | 10200g | 0.01g | 165 × 165mm |
| GX-6001A | 6200g | 0.1g | 165 × 165mm |
| GX-10001A | 10200g | 0.1g | 165 × 165mm |

Standard functions





GX-1003A and GXA-10

| Options & Accessories | Model |
|--|---------------|
| 2nd RS-232C interface | GXA-03 |
| Comparator relay output/buzzer/external key input | GXA-04 |
| Analog output (0V~1V or 0.2V~1V) | GXA-06 |
| Ethernet Interface | FX-OP-08i |
| Built in rechargeable battery | GXA-09 |
| (14 hours operation, dealer fit) | |
| Large breeze break | GXA-10 |
| Animal weighing pan (320g models and above) | GXA-12 |
| Density determination kit (1mg models only) | GXA-13 |
| Large breeze break with built-in fanless ionizer | GXA-17 |
| External key input (print function) | GXA-23-PRINT |
| External key input (re-zero function) | GXA-23-REZERO |
| USB host interface | GXA-24 |
| (for USB flash drives and data storage, dealer fit) | |
| External Fanless ionizer (IR activation, dealer fit) | GXA-25 |
| External IR switch (Print and Tare operation) | GXA-26 |
| Main unit cover (5pcs) | AX-GXA-31 |







GF-N & P Series Legal for Trade

CLASSIC











| Model | Capacity | Resolution | Verification Value | | Pan Size |
|----------|----------|------------|--------------------|--------|-------------|
| | | | е | d | |
| GF-200N | 210g | 0.001g | 0.01g | 0.001g | 5.04x 5.04" |
| GF-300N | 310g | 0.001g | 0.01g | 0.001g | 5.04x 5.04" |
| GF-1200N | 1210g | 0.01g | 0.1g | 0.01g | 6.5x 6.5" |
| GF-2000N | 2100g | 0.01g | 0.1g | 0.01g | 6.5x 6.5" |
| GF-3000N | 3100g | 0.01g | 0.1g | 0.01g | 6.5x 6.5" |
| GF-6000N | 6100g | 0.1g | 1g | 0.1g | 6.5x 6.5" |
| GF-200P | 210g | 0.001g | 0.01g | 0.001g | 5.04x 5.04" |
| GF-300P | 310g | 0.001g | 0.01g | 0.001g | 5.04x 5.04" |
| | | | | | |

*GF-N: NTEP CC#03-005 and MC AM-5587 GF-P: NTEP CC#04-077

- Meets Handbook 44 for a "Class A" NTEP Class II for 0.001 g (d) value/0.01 g (e) value
- Fits application in Cannabis, Jewelery, Grain & Pharmacy
- GLP/GMP/ISO compliance
- Pharmacy "P" versions Ideal for Pill Counting & Compounding
- · Counting feature for prescription filling only

| Options & Accessories | Model |
|---|-----------------|
| USB Option (Uni-Directional) with cable | GX-02 |
| Comparator Output | GX-04 |
| Analog Output; Factory Installed Only | GX-06 |
| Glass Breeze Break for GF-200/300/400/600/800/1000 (8.2" / 21 cm high) | GX-10 |
| Glass Breeze Break for GF- 1200/2000/3000/4000/6100/6000/8000 (8.2" / 21 cm high) | GX-11 |
| Animal Weighing Pan for all GF/GX models except GX-200 and GF-200 | GX-12 |
| Density Determination Kit for GF- 200/300/400/600/800/1000 | GX-13 |
| Rechargeable Battery Pack (external) | AD-1682 |
| Ethernet Adapter D-Sub 25 | AD-8526-25 |
| Universal Remote Display | AD-8920A |
| Anti-Theft Device | AD-100-2 |
| Foot Switch | SW:128 |
| Protective In-use Cover for GF-200/300/400/600 (each) | AX:073003691-S |
| Protective In-use Cover for GF- 1200/2000/30004000/6100/6000/8000 (each) | AX:073003692-S |
| USB to 25 pin RS-232 Converter | AX-USB-2920-25P |

FZ/FX Series

Milligram & Precision Balances



Pay for what matters, reliable and accurate weighing



FZ-i and FZ-i-WP: internal calibration FX-i and FX-i-WP: external calibration

FZ-i-WP and FXi-WP: IP65 dust & water proof

Legal for trade N version available



FZ-300iWP with standard breeze break

| Model | Capacity | Resolution | Verification Value | Pan Size |
|-------------------------|----------|------------|--------------------|----------|
| FZ-120i FZ-120i-WP | 122g | 0.001g | 0.01g | Ø 130mm |
| FZ-200i FZ-200i-WP | 220g | 0.001g | 0.01g | Ø 130mm |
| FZ-300i FZ-300i-WP | 320g | 0.001g | 0.01g | Ø 130mm |
| FZ-500i | 520g | 0.001g | - | Ø 130mm |
| FZ-1200i FZ-1200i-WP | 1220g | 0.01g | 0.1g | Ø 150mm |
| FZ-2000i FZ-2000iWP | 2200g | 0.01g | 0.1g | Ø 150mm |
| FZ-3000i FZ-3000i-WP | 3200g | 0.01g | 0.1g | Ø 150mm |
| FZ-5000i | 5200g | 0.01g | - | Ø 150mm |
| FX-120i FX-120i-WP | 122g | 0.001g | - | Ø 130mm |
| FX-200i FX-200i-WP | 220g | 0.001g | - | Ø 130mm |
| FX-300i FX-300i-WP | 320g | 0.001g | - | Ø 130mm |
| FX-500i | 520g | 0.01g | - | Ø 130mm |
| FX-1200i FX-1200i-WP | 1220g | 0.01g | - | Ø 150mm |
| FX-2000i FX-2000i-WP | 2200g | 0.01g | - | Ø 150mm |

| Model | Capacity | Resolution | Verification Value | Pan Size |
|-------------------------|----------|------------|--------------------|----------|
| FX-3000i FX-3000i-WP | 3200g | 0.01g | - | Ø 150mm |
| FX-5000i | 5200g | 0.01g | - | Ø 150mm |

- IP65 water/dust proof (WP)
- Built-in internal calibration at the touch of a button (FZ-i and FZ-i-WP)
- · Shock absorber function
- Auto power ON/OFF function
- · B5 size footprint for use in narrow spaces
- · VFD Display for easy to read weighing results
- SCF Statistical Calculation Function
- Standard RS-232C
- · Fast compact SHS sensor, response time only 1 second
- Quick USB interface no driver installation required (optional)
- LAN Ethernet interface with WinCT-Plus software (optional)
- Animal weighing pan (optional)
- Large breeze break (optional)
- Small breeze break included on 1mg models
- Built-in rechargeable NiMH battery pack (optional)

FX-iN/NC Series Legal for Trade

STANDARD

Pay for what matters, reliable and accurate weighing



NTEP and Measurement Canada Approved Class II, CC# 08-045A3, AM-5692 Legal for trade N version available







FX-300iWPN with standard breeze break

| Model | Capacity | Resolution | Verification Value | | Pan Size |
|---|----------|------------|--------------------|--------|----------|
| | | | е | d | |
| FX-120iN FX-120iNC FX-120i-WPN | 122g | 0.001g | 0.01g | 0.001g | Ø 130mm |
| FX-200iN FX-200iNC FX-200i-WPN | 220g | 0.001g | 0.01g | 0.001g | Ø 130mm |
| FX-300iN FX-300iNC FX-300i-WPN | 320g | 0.001g | 0.01g | 0.001g | Ø 130mm |
| FX-1200iN FX-1200iNC FX-1200i-WPN | 1220g | 0.01g | 0.1g | 0.01g | Ø 150mm |
| FX-2000iN FX-2000iNC FX-2000i-WPN | 2200g | 0.01g | 0.1g | 0.01g | Ø 150mm |
| FX-3000iN FX-3000iNC FX-3000i-WPN | 3200g | 0.01g | 0.1g | 0.01g | Ø 150mm |

*N=NTEP, NC=Measurement Canada FX-iN: NTEP CC# 08-045A2 FXiNC: MC AM# AM-5692

- IP65 water/dust proof (WP)
- · Built-in internal calibration at the touch of a button
- Auto power ON/OFF function
- VFD Display for easy to read weighing results
- Standard RS-232C
- · Fast compact SHS sensor, response time only 1 second
- Quick USB interface no driver installation required (optional)
- LAN Ethernet interface with WinCT-Plus software (optional)
- Animal weighing pan (optional)
- Large breeze break (optional)
- · Small breeze break included on 1mg models
- Built-in rechargeable NiMH battery pack (optional)

FX & FX-WP, FZ & FZ-WP Milligram & Precision Balances

STANDARD

Robust, Durable, Accurate



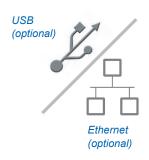
Firmly Sealed Pan Support with protective membrane (-WP IP65 models)



Water Proof RS-232C (optional)



Large Breeze Break (optional)





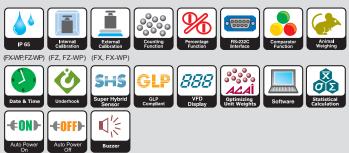
Animal weighing plate (optional)

| Options & Accessories | Model |
|--|-----------------|
| Quick USB interface with cable* | FXi-OP-02 |
| LAN Ethernet output* | FXi-OP-08 |
| NiMH battery pack* | FXi-OP-09 |
| Small breeze break (not WP models) | FXi-OP-10 |
| Small breeze break (WP models) | FXi-WP-10 |
| Large breeze break (not WP models) | FXi-OP-11 |
| Large breeze break (WP models) | FXi-WP-11 |
| Animal weighing pan (0.01 models only) | FXi-OP-12 |
| Transparent plastic covers (5 pcs) | AX-FX-31i |
| Carat weighing pan - silver | AX-Caratpan-WEX |
| Carat weighing pan - black | AX-Caratpan-BEX |
| Waterproof RS-232C cable (5m) | AX-KO2737-500 |

^{*} OP-02, OP-08 and OP-09 cannot be installed at the same time. The connectors of optional OP-02, OP-08 and OP-09 are not IP65.

Enables the measurement of liquid or powder at 1mg resolution, eliminating any worries about damage to the balance

Standard functions





Newton EJ Series Portable Scales

Precision weighing made simple and versatile.









| Model | Capacity | Resolution | Pan Size |
|---------|----------|------------|-------------|
| EJ-123 | 120g | 0.001g | Ø 110mm |
| EJ-303 | 310g | 0.001g | Ø 110mm |
| EJ-120 | 120g | 0.01g | Ø 110mm |
| EJ-200 | 210g | 0.01g | Ø 110mm |
| EJ-300 | 310g | 0.01g | Ø 110mm |
| EJ-410 | 410g | 0.01g | Ø 110mm |
| EJ-610 | 610g | 0.01g | Ø 110mm |
| EJ-1202 | 1200g | 0.01g | 127 × 140mm |
| EJ-1500 | 1500g | 0.1g | 127 × 140mm |
| EJ-2000 | 2100g | 0.1g | 127 × 140mm |
| EJ-3000 | 3100g | 0.1g | 127 × 140mm |
| EJ-3002 | 3100g | 0.01g | 127 × 140mm |
| EJ-4100 | 4100g | 0.1g | 127 × 140mm |
| EJ-6100 | 6100g | 0.1g | 127 × 140mm |
| | | | |

| Options & Accessories | Model |
|---|--------|
| Quick USB interface with Cable 5ft unidirectional | EJ-02C |
| RS-232 interface with cable 6ft (9Pin-9Pin) | EJ-03C |
| Underhook for EJ-3000/EJ-4100/EJ-6100 | EJ-07 |
| Underhook for EJ-1500/EJ-2000 | EJ-08 |
| Breeze break (standard on EJ-123/EJ-303) | EJ-11 |
| Carrying case | EJ-12 |
| Density measurement kit | EJ-13 |

Unique design

EJ-11 Breeze break

(optional for EJ-123/303)

- · External calibration
- · Backlit display
- Supports multiple weighing units like counting, % weighing, comparator...
- Calculates density automatically (option EJ-13)
- Hygienic and rustproof stainless steel pan
- · Security slot at the back for wire-locking to prevent theft
- Stackable body to save storage space
- Power supply: AC adapter or 4 AA size dry batteries (batteries are not included)
- · Low battery indicator

Standard functions













Stackable body for easy storage

and saving space







Optional

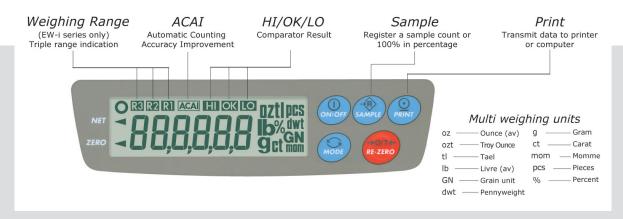




EJ-12

Everest EK/EW-i Series Compact Balances





| Options & Accessories | Model |
|------------------------------------|---------------|
| Comparator/relay output | EK/Wi-OP-04 |
| Underhook (EK-6000i/EK-12Ki) | EK/Wi-OP-07 |
| Rechargeable battery pack | EK/Wi-OP-09 |
| Carrying case | EJ-12 |
| Transparent plastic covers (5pcs.) | AX-3005824-5S |

| Model | Capacity | Resolution | Verification Value=d(g) | Pan Size |
|----------|----------|------------|-------------------------|-------------|
| EW-150i* | 30g | 0.01g | | Ø 110mm |
| | 60g | 0.02g | | |
| | 150g | 0.05g | | |
| EW-1500i | 300g | 0.1g | 0.1g | 133 × 170mm |
| | 600g | 0.2g | 0.2g | |
| | 1500g | 0.5g | 0.5g | |
| EW-12Ki | 3000g | 1g | 1g | 133 × 170mm |
| | 6000g | 2g | 2g | |
| | 12000g | 5g | 5g | |

NTEP Class III 1500i and 12Ki, CC# 04-019A1

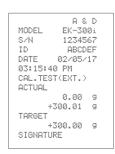
^{*} Triple range

Everest EK/EW-i Series Compact Balances





Carrying case EJ-12



GLP Printout with balance I.D. number allows calibration output verification print out

Options & accessories



Dot Matrix compact statistical printer AD-8121B



Ni-MH Battery Pack *EKW-09i, for complete portability and use in areas without power

| Model | Capacity | Resolution | Verification Value | Pan Size |
|----------|----------|------------|--------------------|-------------|
| EK-120i | 120g | 0.01g | | Ø 110mm |
| EK-200i | 200g | 0.01g | | Ø 110mm |
| EK-300i | 300g | 0.01g | | Ø 110mm |
| EK-410i | 400g | 0.01g | | Ø 110mm |
| EK-610i | 600g | 0.01g | | Ø 110mm |
| EK-600i | 600g | 0.1g | 0.1g | Ø 110mm |
| EK-1200i | 1200g | 0.1g | 0.1g | 133 × 170mm |
| EK-2000i | 2000g | 0.1g | | 133 × 170mm |
| EK-3000i | 3000g | 0.1g | | 133 × 170mm |
| EK-4100i | 4000g | 0.1g | | 133 × 170mm |
| EK-6100i | 6000g | 0.1g | | 133 × 170mm |
| EK-6000i | 6000g | 1g | 1g | 133 × 170mm |
| EK-12Ki | 12kg | 1g | 1g | 133 × 170mm |

*NTEP Class III on 600i and 6000i and Class II on 1200i and 12Ki NTEP CC#04-0-019A1

- · Standard RS-232C interface
- · Large LCD display with backlight
- Triple range (EW-i only)
- Compact design
- · GLP compliant
- · Overload protection
- · Standard comparator function
- · Optional rechargeable battery pack
- · 9 Weighing units plus count and percentage mode
- · Counting function with Automatic Counting Accuracy Improvement
- · Full digital calibration with optional user definable mass setting

Standard functions































EK-AEP

Intrinsically Safe Compact Balances







EK-3000AEP

Conforms to:

IECEx: Ex ia IIB T3 Ga ATEX: II 1G Ex ia IIB T3 Ga

FM/FMc (NEC505): AEx / Ex ia IIB T3 FM/FMc (NEC500): IS / I / 1 / C,D / T3C

| Model | Capacity | Resolution | Pan Size |
|------------|----------|------------|-------------|
| EK-300AEP | 300g | 0.01g | Ø 110 mm |
| EK-3000AEP | 3000g | 0.1g | 133 × 170mm |
| EK-12KAEP | 12000g | 1g | 133 × 170mm |

| Accessories | Model |
|-------------------------------|---------------|
| Carrying case | EJ-12 |
| Optical communication adapter | AD-1611 |
| Optical cable 10m | AX:KS5456-010 |
| Optical cable 30m | AX:KS5456-030 |
| Optical cable 60m | AX:KS5456-060 |

Standard functions

















- Compact, lightweight and extremely affordable while providing excellent intrinsic protection protection
- Battery operation*1 (approx. 250 hours) for high portability, requiring no power supply from a safe area via a safety barrier
- Easy-to-read LCD display with backlight (16 mm character height)
- · Auto power OFF function to save battery power
- Hygienic and chemically resistant stainless steel (SUS304) weighing nan
- Multiple weighing units: g, oz, lb, ozt, ct, mom, dwt, gr, N, in addition to SG (specific gravity)*2
- Counting mode with Automatic Counting Accuracy Improvement (ACAI) function
- Percent mode function for target weighing, checking the sample variation, etc.
- Comparator function for faster and more accurate filling, packing, sorting, etc.
- Adjustable response characteristics depending on the degree of drafts and vibrations at the location
- · Security ring for wire-locking the balance to prevent theft
- Optical communication optional with AD-1611
- *1 Only to be used with four DURACELL AA alkaline MN1500 LR6, ENERGIZER AA E91 alkaline LR6 AM3, or Panasonic AA alkaline LR6 (XJ) 1.5V batteries.
- *2 Either tl (tael) or tol (tola) can be added upon request.

GX/GF High Capacity Balances

ADVANCED







| Model | Capacity | Resolution | Pan Size |
|-----------|-----------|------------|-------------|
| GX-8K | 8.1kg | 0.01g | 270 × 210mm |
| GX-8KSR | 8.1/2.1kg | 0.1/0.01g | 270 × 210mm |
| GX- 10K | 10.1kg | 0.01g | 270 × 210mm |
| GX- 12K | 12kg | 0.1g | 270 × 210mm |
| GX- 20K | 21kg | 0.1g | 270 × 210mm |
| GX- 30K | 31kg | 0.1g | 270 × 210mm |
| GX-30KSR | 31/6.1kg | 1/0.1g | 270 × 210mm |
| GF-8K | 8kg | 0.01 | 270 × 210mm |
| GF- 8KSR | 8.1/2.1kg | 0.1/0.01g | 270 × 210mm |
| GF- 10K | 10kg | 0.01g | 270 × 210mm |
| GF- 12K | 12kg | 0.1g | 270 × 210mm |
| GF- 20K | 21kg | 0.1g | 270 × 210mm |
| GF- 30K | 31kg | 0.1 | 270 × 210mm |
| GF- 30KSR | 31/6.1kg | 1/0.1g | 270 × 210mm |

^{*} Smart Range (see icon definition)

| Options & Accessories | Model |
|--|----------------|
| Comparator relay output with buzzer/current loop | GX/GF-OP-04K |
| Analog/current loop output | GX/GF-OP-06K |
| Waterproof RS-232C cable (5m) | GX/GF-OP-07K |
| Transparent plastic covers (5 pc) | AX-073007197-S |
| Breeze break (standard on GF/GX-8K/8K2 & 10K models) | AX-GXK-31 |
| Rechargeable, portable power supply unit | AD-1682 |
| Animal weighing pan | AX-GXK-012 |

- Fast response time with Super Hybrid sensor (SHS) only 1.5 seconds
- One touch automatic calibration with motor-driven internal calibration mass (GX-K)
- Automatic self calibration when the ambient temperature changes (GX-K)
- IP65 water and dust proof
- Standard RS-232C Interface
- · GLP, GMP and ISO compliant
- Underhook weighing (for thermal or magnetic samples, or for density measurement)
- ACAI (Automatic Counting Accuracy Improvement)
- Auto power ON function
- Display auto power OFF function
- Data memory function
- Smart Range function (GX/GF-8K2/32K)

*Note: In wet areas, please use interfaces only with OP-07.

GX-K/GF-K

Industrial Precision Balances

Robust:

- Die cast aluminium
- · Four support points under the pan
- Mechanical keyboard
- SHS sensor technology

Easy to clean

IP 65 dust & water protected, for a large weighing capacity at a given resolution: 10kg × 0.01g, 31kg × 0.1g







IP65 protected data cable



Well protected, easy to clean

Standard functions





GP Series High Precision Bench

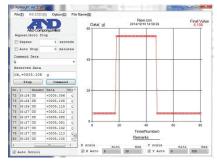
Up to: 61kg × 0.1g
101kg × 1g

Fast
Robust
Durable
Versatile
IP65

With detached display unit

WinCT

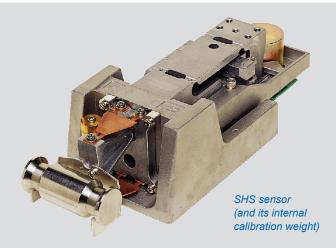
Communications software provides easy transmission of weighing data from A&D balances to a computer



WinCT-RsWeight



WinCT-RsCom



(KS models only)

| Options & Accessories | Model |
|--|------------|
| Comparator relay output/RS-232C/current loop | GP-OP-04 |
| Analog output | GP-OP-06 |
| 5m extension cable (KS model only) | GP-OP-07 |
| Underhook (GP-12K/20K/22K/30K/30KS) | GP-OP-20 |
| Underhook (GP-60K/100K/100KS/102K) | GP-OP-21 |
| AD-8121 printer mounting kit | GP-OP-22 |
| Transparent plastic covers (1 pc) | 07:3004753 |
| Rechargeable, portable power supply unit | AD-1682 |

- · Swing arm design or separate display and platform design
- IP65 protected
- Durable aluminium alloy & stainless steel construction
- · Easy calibration with internal calibration mass
- SHS response speed of only 1.5 seconds
- GLP, GMP and ISO compliant
- · RS-232C interface
- · Comparator output and analog output (optional)
- Large Vacuum Fluorescent display
- · Data memory function
- Counting function with ACAI (Automatic Counting Accuracy Improvement)
- Smart range function (GP-32K/102K/32KS)
- Comparator function
- Underhook weighing for thermal and magnetic samples as well as for density calculation
- · Animal weighing function

GP Series High Precision Bench





Swing arm display



| Model | Capacity | Resolution | Pan Size |
|------------|------------|------------|-------------|
| GP-12K | 12kg | 0.1g | 384 × 344mm |
| GP-20K | 21kg | 0.1g | 384 × 344mm |
| GP-32K* | 31kg/6.1kg | 1g/0.1g | 384 × 344mm |
| GP-32KS* | 31kg/6.1kg | 1g/0.1g | 384 × 344mm |
| GP-30K | 31kg | 0.1g | 384 × 344mm |
| GP-30KS** | 31kg | 0.1g | 384 × 344mm |
| GP-40K | 41kg | 0.5g | 384 × 344mm |
| GP-60K | 61kg | 1g | 384 × 344mm |
| GP-60KS | 61kg | 1g | 384 × 344mm |
| GP-61K | 61kg | 0.1g | 384 × 344mm |
| GP-61KS | 61kg | 1g | 384 × 344mm |
| GP-100K | 101kg | 10g | 386 × 346mm |
| GP-100KS** | 101kg | 1g | 386 × 346mm |
| GP-102K* | 101kg/61kg | 10g/1g | 386 × 346mm |

^{*} Smart Range (see icon definition), ** Detachable display (KS models)

Standard functions

(GP-32K/32KS/102K)





MC Mass Comparators **Precision Balance with Extended Resolution**



MC-10K and auto-centering pan MC-6100

| Model | Capacity | Resolution | Pan Size |
|----------|----------|------------|-------------|
| MC-1000 | 1100g | 0.0001g | 128 × 128mm |
| MC-6100 | 6100g | 0.001g | 165 × 165mm |
| MC-10K | 10.1kg | 0.001g | 270 × 210mm |
| MC-30K | 31kg | 0.01g | 270 × 210mm |
| MC-100KS | 101kg | 0.01g | 386 × 346mm |

Standard functions

























- · For management of masses in the OIML Class F1 or below
- · Extra decimal place for monitoring fine weight changes with heavy tare weights
- · Stabilizing filter to lessen errors due to drafts or vibrations
- Auto-centering pan to avoid corner-load errors and ensure higher accuracy (optional)
- · Internal calibration mass for simplified calibration of the balance
- Equipped with a glass breeze break (MC-1000/6100) or simple breeze break as standard (MC-10K/30K)
- · Fast stabilization of approx. 1.5 seconds
- · GLP/GMP/GCP/ISO compliant output
- · Large bright Vacuum Fluorescent Display
- · Multiple weighing units of measurement







MC Mass Comparators



MC-30K with auto-centering pan MC-100KS

| Options & Accessories | | Model |
|-----------------------|--|-----------------|
| For MC-1000/6100 | Auto-centering pan (MC-1000) | AX-MC1000PAN |
| For MC-1000/6100 | Auto-centering pan (MC-6100) | AX-MC6100PAN |
| For MC-1000/6100 | Quick USB interface with cable | GX-02 |
| For MC-1000/6100 | Comparator output with a buzzer/RS-232C/current loop* | GX-04 |
| For MC-1000/6100 | Analog voltage auto-centering pan (MC-1000) | GX-06 |
| For MC-1000/6100 | Output/current loop* | GX-12 |
| For MC-1000/6100 | Animal weighing pan | GX-13 |
| For MC-10K/30K | Auto-centering pan (MC-10K/30K) | AX-MC10K/30KPAN |
| For MC-10K/30K | Comparator output with a buzzer/RS-232C/current loop** | GX-04K |
| For MC-10K/30K | Analog voltage output/current loop** | GX-06K |
| For MC-10K/30K | Waterproof RS-232C cable (5m) | GX-07K |
| For MC-10K/30K | Animal weighing pan | GXK-012 |
| For MC-10K/30K | Carrying case | GXK-015 |
| For MC-100KS | Comparator output with buzzer/RS-232C/current loop | GP-OP-04 |
| For MC-100KS | Analogue voltage output/current loop | GP-OP-06 |
| For MC-100KS | 5m display cable (factory fit) | GP-OP-07 |
| For MC-100KS | Animal weighing pan | GP-OP-12 |
| For MC-100KS | Underhook | GP-OP-21 |
| For MC-100KS | AD-8121B printer support bracket | GP-OP-22 |
| For all models | Weighing environment logger (temperature, humidity, pressure, vibration) | AD-1687 |

^{*} GX-04 and GX-06 are factory installed options.

** GX-04K, GX-06K, and the standard RS-232C interface cannot be used at the same time. The MC-10K/30K are not IP65 compliant with these options

M Series Moisture Analyzer

Save time & money with moisture results within minutes



Simple operation



Easy sample handling



Quick reference card

SRA Filter

A&D Innovation, maximizing uniform heating of the sample

SHS Sensor

A&D Innovation, robust, reliable and fast weighing



ML-50

- Fast and uniform heating with halogen lamp and uniquely designed "SRA" filter that avoids hot spots
- High repeatability with SHS technology (Super Hybrid Sensor)
- Sodium Tartrate Dihydrate for accuracy verification
- Calibration function for the heating temperature with optional MX/MF-OP-43 (for MS & MX)
- Memory function (to be able to save/recall configurations as well as measurement results)
- Five measurement programs (standard, automatic, quick, timer and manual mode)
- Four heating modes (standard, quick, step and ramp mode) (not ML)
- · Large and easy to read VFD display
- Standard RS-232C interface
- · Measurement of liquid or solid content

Standard functions









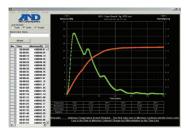


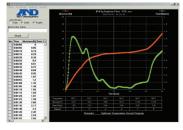






WinCT-Moisture Software Moisture Analyzers

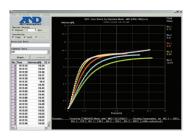


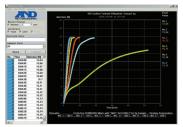


Soybean flour

Sodium tartrate dihydrate

The example shows multiple measurements by using the RS-Fig graphical software:





Sodium tartrate dihydrate

Soybean flour

WinCT measurement graphs
With our WinCT–Moisture software, data measured by the moisture analyzers can be easily displayed on your computer.

You can animate analysis curves in real time (module RsFig), control the equipment from your PC (RsCom) and transfer measurement results directly into MS Excel or MS Word (RsKey). WinCT–Moisture allows testing of new sample types in order to determine the best measurement parameters such

as heating temperature (*RsTemp*). This function is very useful to reduce the measurement time and to improve accuracy.

| Model | Capacity | Resolution | Moisture Content | %Accuracy(1g) |
|-------|----------|------------|------------------|---------------|
| MS-70 | 71g | 0.0001g | 0.001/0.01/0.1% | 0.05% |
| MX-50 | 51g | 0.001g | 0.01%/0.1% | 0.1% |
| MF-50 | 51g | 0.002g | 0.05%/0.1%/1% | 0.2% |
| ML-50 | 51g | 0.005g | 0.1%/1% | 0.5% |

| Options & Accessories | Model |
|---|---|
| Sample Pans (Single-use disposable, 100 ea) (Ø 85 mm) | AX-30 |
| Sample Pans (Reusable washable, 100 ea) (Ø 85 mm) | AX-31 |
| Glass Fiber Sheets (100 ea) (Ø 70 mm) | AX-32-1 |
| Glass Fiber Sheets (100 ea) (Ø 78 mm) | AX-32-2 |
| Sodium Tartrate Dihydrate Test Samples (30g x 12 ea) | AX-33 |
| Halogen Lamp (replacement) | AX-34 |
| 220V Halogen Lamp (replacement) | AX-MX-34-240V |
| Pan Handles (2 ea) | AX-35 |
| Tweezers (2 ea) | AX-36 |
| Spoons (2 ea) | AX-37 |
| Protective Covers (5 ea) | AX-38 |
| Dust Cover | AX-39 |
| WinCT-Moisture (standard for MS_70 & MX_50 portion for ME_50) | AX-42 |
| | AD-1700-20G |
| , 0, | |
| | |
| | |
| USB to 25 pin RS-232 Converter | AX-USB-2920-25P |
| 220V Halogen Lamp (replacement) Pan Handles (2 ea) Tweezers (2 ea) Spoons (2 ea) Protective Covers (5 ea) Dust Cover WinCT-Moisture (standard for MS-70 & MX-50, option for MF-50) Calibration Mass (20g) AX-43 Temperature Calibrator (MS-70 & MX-50 only) Power Cable (120V) Power Cable (220V) | AX-MX-34-240V AX-35 AX-36 AX-37 AX-38 AX-39 AX-42 AD-1700-20G MX/MF-OP-43 KO:115 KO:243 |

Note: For 220V power add "X" to the end of the part # (e.g. MS-70X) No additional cost.

- WinCT-Moisture displays moisture rate changes over time in a realtime animated graph (RsFig)
- · Measures moisture rate in shortest time with excellent accuracy
- Shows sample data summary: configuration description and measurement results
- Calculates measurement data statistics
- · Saves the recorded data as a CSV file



MPA Series **Electronic Pipettes**

Greater Ease & Ergonomic - Higher Precision



The plunger of the pipette is controlled by lightly pressing a key with the ball of the forefinger (like pulling a trigger), while maintaining all fingers in a natural, effortless grip. No longer will hours or days of pipetting cause pain in your thumb



With padding set on the four corners of the head, the pipettes of the MPA series are protected from impacts and falls.

Stress-minimized, pain-free operation:

Reduced physical stress due to ergonomic operation. The use of an electronic pipette requires minimal power, and keeps the strain on your hand as low as possible. The degree of fatigue compared to a manual pipette is very low.

| Model | Volume Range | Accuracy |
|-----------|---------------|----------|
| MPA-10 | 0.5 to 10.0μL | 0.1µL |
| MPA-20 | 2.0 to 20.0µL | 0.1µL |
| MPA-200 | 10 to 200μL | 1.0µL |
| MPA-1200 | 100 to 1200μL | 1.0µL |
| MPA-10000 | 0.1 to 10.0mL | 0.01mL |

| Accessories | Model |
|---|-----------------|
| Tip box for the MPA-10/20/200*3 | AX-BOX200A |
| Tip box for the MPA-1200*3 | AX-BOX1200A |
| Tip box for the MPA-10/20/200 (without lid)*3 | AX-BOX200B |
| Tip box for the MPA-1200 (without lid)*3 | AX-BOX1200B |
| Tip cartridge for the MPA-10/20 (10 trays)*4 | AX-CART-10/20 |
| Tip cartridge for the MPA-200 (10 trays)*4 | AX-CART-200 |
| Tip cartridge for the MPA-1200 (10 trays)*4 | AX-CART-1200 |
| Tip box for the MPA-10000 (250 pcs) | AX-BULK-10ML-A |
| Tip box for the MPA-10000 (36 pcs) | AX-BOXT-10ML-A |
| Tip box for the MPA-10000 (36 pcs sterilized) | AX-BOXT-10ML-AS |
| Stainless steel stand (for up to three MPAs) | AX-ST-SUS |
| Acrylic stand (for up to two MPAs) | AX-ST-ACR |
| Charging hanger | AX-HA-CHG |
| Charging stand for single MPA | AX-ST-CH-A1 |
| Charging stand for four MPAs | AX-ST-CH-M4 |
| Lithium-ion rechargeable battery | AX-BAT-MPA |

*3 tips not included, *4 one set includes 96 tips

- Automatic operation assuring accuracy for everyone at all times
- Calibration and display by either volume (μL/mL) or weight (mg)
- Multiple dispensing (MD) mode with automatic initial volume correction (pre-dispensing)
- Mixing (MIX) mode for homogenizing solutions
- Reverse operation for accurately dispensing viscous samples
- Aspirating/dispensing speeds adjustable to 5
- Easy calibration (adjustment) by yourself user CAL function
- · Accurate pipetting possible with other manufacturers' tips

AD-4212A/B-PT, FX-300i-PT Pipette Accuracy Testers





AD-4212B-101

1 7 00011 1

- Compliant to ISO8655 for "gravimetric methods"
- Three models covering a wide volumetric range from 1µg to 1mg
- The innovative SHS Sensor enables very fast measuring and quick stabilisation time, and therefore increases productivity when testing pipettes
- Data evaluation and control of the balance with "WinCT-Pipette"
 software
- Standard liquid thermometer for precise mass-to-volume conversion
- Standard calibration weight and tweezers to maintain the balance accuracy included

| Model | Capacity | Min. weighing value |
|-------------|---------------|---------------------|
| AD-4212B-PT | 110g/31g/5.1g | 0.1mg/0.01mg/1µg |
| AD-4212A-PT | 110g | 0.1mg |
| FX-300i-PT | 320g | 1mg |

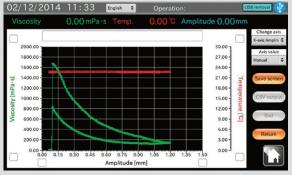


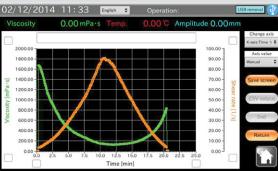
Standard functions



RV-10000/A RV Tuning Fork Vibro Rheometer







* The shear rate shown by the controller is a root-mean-square value and is calculated assuming that the sample is a Newtonian fluid.

- Wide measurement range from 0.3 mPa.s-25,000 mPa.s
- · Simultaneous measurement of temperature and viscosity
- Repeatability as high as 1% of the measured value even with low viscosity sample fluids
- Quick measurement in only 20 seconds
- · Low thermal capacity of the sensor plates
- · Adjustable vibration amplitude to allow changing the shear rate
- · Measurement of liquids in motion
- · Easy calibration by the user
- · The sensor plates are easy to clean
- LCD Display with 7-inch, color touch-panel (RV-A)
- Can automatically change the amplitude of the sensor plates, and take data as programmed by the user (RV-A)
- Displays graphs of measurement data in real time
- Changes in the viscosity are shown as a function of temperature, time, and/or shear rate*
- The RVA model comes with a special controller enabling:
 - » Automatically changing the amplitude (shear rate) and capturing data in the manner set by the user
 - » Real time graphing of viscosity variation with time, temperature and shear rate
 - » Saving results (in CSV format) and graph screens (as JPEG images) in USB flash drives
- · Sample fluid

RV Series Rheometer



Sensor plates (close up)

Two thin sensor plates arranged like a tuning fork, and electromagnetically driven, vibrate at a frequency of 30Hz in the sample liquid.

Viscosity is then calculated based on the proportional relationship between the viscous resistance of the sample fluid and the amount of electric current required to drive and maintain the sensor plates at constant vibration amplitude.

The sensor plate amplitude of the RV-10000/A can be altered between the minimum of 0.07 mm and the maximum of 1.2 mm (peak to peak), while the frequency is kept at 30Hz, which will cause a variation in shear rate.

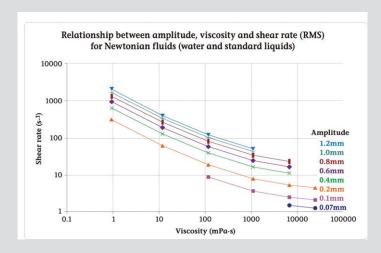
This allows the user to easily quantify the viscous behaviours of non-Newtonian fluids in response to different shear rates.

A temperature sensor (0 to 160 $^{\circ}$ C) located between the sensor panels enables to capture the measuring temperature at the same place during the measurement.

In addition, the sample may be placed in the supplied water jacket with a commercially available temperature control tank, to control the temperature (between 0 and 100 °C) of the sample fluid in order to measure the viscosity at a constant temperature or to see how the viscosity varies with changing temperature.

WinCT - Viscosity (supplied) is software for automatic transfer of the measurement data (temperature and viscosity) to allow further processing. The measurement results can be graphically displayed in real time or can be stored as a "CSV file" for future analysis.

| Model | Measurement Range | Units |
|-----------|-------------------|--------------------|
| RV-10000 | 0.3 — 25000 mPa·s | mPa·s, Pa·s, cP, P |
| RV-10000A | 0.3 — 25000 mPa·s | mPa·s, Pa·s, cP, P |



| Options & Accessories for RV-10000 and RV-10000A | Model |
|--|-----------------|
| Sample cup, 35-45ml, polycarbonate (pack of 10) | SV-33 |
| Sample cup, 10ml, with cover, polycarbonate (pack of 10) | SV-34 |
| Sample cup, 13ml, glass | SV-35 |
| Positioning stopper | SV-36 |
| Water jacket (1 water jacket, 4 x 10ml-cups with cover) | SV-37 |
| Storage container, 60ml, glass (pack of 10) | SV-38 |
| Storage container 120ml, polycarbonate (pack of 10) | SV-39 |
| Analog voltage output (0-1V) | SV-42 |
| 5m display extension cable | SV-43 |
| Software set (WinCT-Viscosity x 1pc, 25p-9p | SV-53 |
| Cable x 1pc, Serial-USB Converter x 1pc) | RS-232C |
| Viscometer Carrying Case | CC:SV |
| AC Adapter 120V (standard with unit) | TB:636 |
| AC Adapter 220V | TB:137 |
| 25 pin RS-232 to USB Converter | AX-USB-2920-25P |
| Cup set: * 5 x 45ml sample cup, polycarbonate * 5 x 10ml sample cup, polycarbonate, 5 x cover for 10ml sample cup * 2 x 13ml sample cup, glass, 1 x holder (stainless steel) for 13ml sample cup * 1 x Water jacket, polycarbonate | SV-54 |

SV Series Viscometers



| Specifications | SV-10 | SV-100 | SV-1A |
|--------------------|---|----------------------|--------------------|
| Measurement method | Sine-wave Vibro Viscometer using tuning fork vibration method (30Hz) | | |
| Measurement range | 0.3~10000 mPa.s | 1000~100000 mPa.s | 0.3~1000 mPa.s |
| Units | mPa.s, Pa.s, cP, P | Pa.s, P | mPa.s, Pa.s, cP, P |
| Accuracy | Repeatability of 1% of the displayed value (S.D., 20~30°C, no condensation) | | |
| Sample size | 10ml~ | 10ml~ | 2ml~ |
| Temperature range | 0~160°C / precision 0.1°C | | |
| Display | Vacuum Fluorescent Display | | |
| Power supply | AC adapter (approx.14VA) | | |

WinCT-Viscosity Software

The module RsVisco was developed for the transmission of real-time viscosity and temperature measurement results from the SV series to a PC. The results are displayed in a graph format with scaling conversion and logarithm display functions available. The user can save the measurement data as a "CSV" file and open it using RsVisco or MS-Excel.

The module RsKey transfers measurements directly into an application such as MS-Excel. RsCom sends commands and can be used for remote control of the viscometer.

- Wide measurement range: 0.3 – 10,000mPa.s for SV-10, and 1,000 – 100,000mPa.s for SV-100
- Measurement of very low viscosities (down to 1/3 of water viscosity!)
- Temperature measurement from 0 to 160° C
- Fast measurements: 1st result within 15 seconds, and refresh in real time
- Possible continuous measurements in order to characterize changes of state
- High precision with a repeatability of ±1% of displayed value
- Small size sample: cups of 35ml, 13ml, 10ml, and even tubes of 2ml (with SV-1A)
- Possibility to do measurements directly into your containers: beakers, product packages.
- Low mechanical impact: preservation of sample characteristics and its texture

- Negligible thermal impact
- Measurements possible on foaming samples, on foam itself, on flowing or agitated samples
- Simple operation: no configuration - just push the start button
- Easy cleaning
- WinCT-Viscosity software for data acquisition on PC, graphic display of curves, and data archiving (viscosity curves against temperature or time)
- Calibration (judgement and even adjustment) of viscosity possible by the user: 1 or 2 points
- Simplified and automated calibration (including adjustment) with pure water (SV-10)
- Temperature control of sample with water jacket option (AX-SV-37) or other methods

SV Series Viscometers



SV-1A: miniaturized sensor

2ml sample measurements (SV-1A)

| Model | Measurement Range | Unit |
|---------|-------------------|--------------------|
| SV-10 | 0.3 — 10000 mPa·s | mPa·s, Pa·s, cP, P |
| SV-100 | 1 — 100 Pa·s | Pa·s, P |
| SV-1A | 0.3 — 1000 mPa·s | mPa·s, Pa·s, cP, P |
| SV-10A | 0.3 — 10000 mPa·s | |
| SV-100A | 1 — 100 Pa·s | |

| Options & Accessories for SV-10, 100, 1A | Model |
|--|--------|
| Sample cup, 35-45ml, polycarbonate (pack of 10) | SV-33 |
| Small sample cup, 10ml, with cover, polycarbonate (pack of 10) | SV-34 |
| Sample cup, 13ml, Glass | SV-35 |
| Positioning stopper | SV-36 |
| Water jacket (1 water jacket, 4 × 10ml-cups with cover) | SV-37 |
| Storage container, 60ml, glass (pack of 10) | SV-38 |
| Storage container, 120ml, plastic (pack of 20) | SV-39 |
| Analog voltage output (0-1V) | SV-42 |
| Extension cable (5m) between the main unit and the display | SV-43 |
| Tube holders for 2ml cups, polycarbonate | SV-56* |
| (5pc: 2 transparent, 3 black) | SV-56* |
| Rack stands for 2ml tubes (2 pcs) | SV-57* |
| Sample tube, 2ml with lid, polycarbonate (pack of 100) | SV-58* |
| Rack stand and 5 glass sample-cups (2ml) | SV-59* |

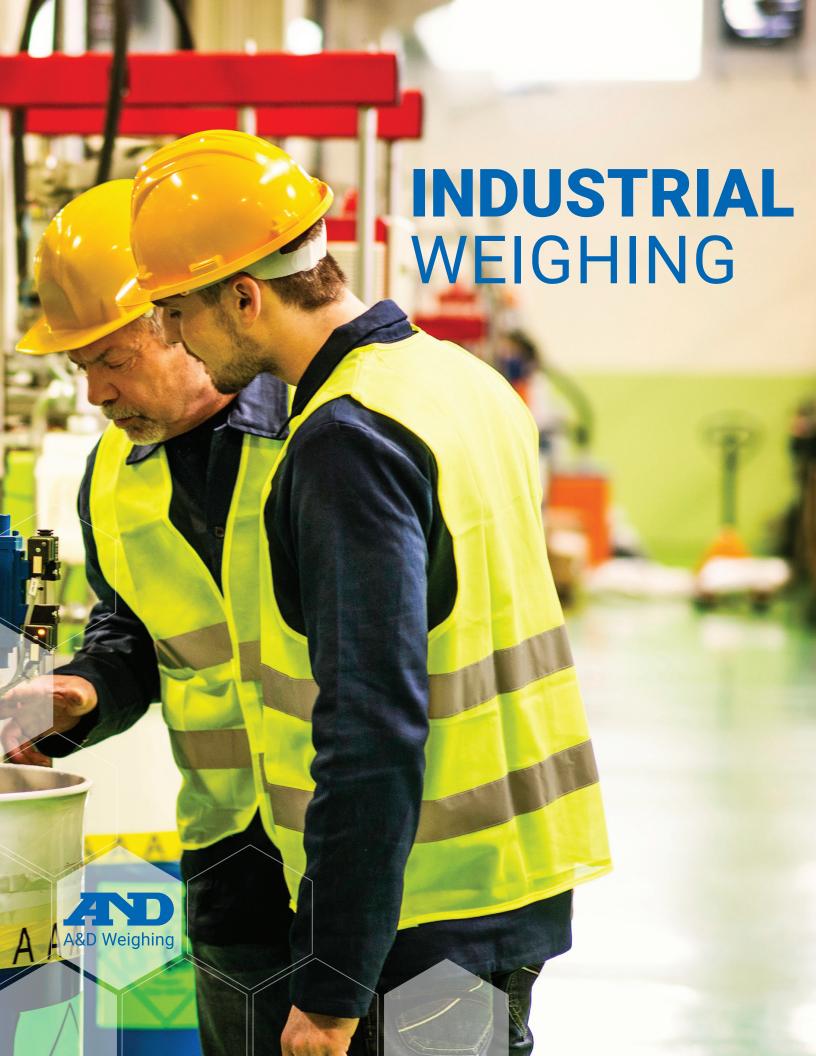
^{*}only for SV-1A

Standard accessories delivered with SV-10/SV-100:

4 x 35ml-sample cup *(polycarbonate)*, WinCT-Viscosity software, RS-232C interface and cable.

Standard accessories delivered with SV1-A:

10 x 2ml-sample tubes with lid (polycarbonate), 5 x 35ml-sample cup (polycarbonate), 10 x 2ml-sample tubes (glass), 5 x holders for 2ml-sample tubes: 3 in black and 2 transparent, 1 rack for 2ml-sample tubes, 1 water jacket (polycarbonate), for temperature control, WinCT-Viscosity software, RS-232C interface and cable, USB adapter



HJ-150 Compact Scales



- · Compact and lightweight design for easy portability
- · Large, backlit LCD screen is easy to read
- Battery operation with 2 x AAA batteries for convenient on-the-go weighing
- · Auto Power Off Function extends battery life
- · Easy One-Touch Calibration with included 100g weight
- · Weigh in either grams or ounces

| Model | Capacity | Resolution | Pan Size |
|--------|----------|------------|---------------|
| HJ-150 | 150g | 0.01g | 2.36 x 2.52in |

Standard functions









PV Compact Scales



- Compact and lightweight design make for easy storage or transport
- Operation with with 2 x AAA batteries for 40+ hours of use
- · Auto Power Off Function conserves the battery life
- · Large, clear LCD display for accurate reading of results
- Multiple weighing units g, oz, dwt, ozt

| Model | Capacity | Resolution | Pan Size |
|--------|----------|------------|------------|
| PV-100 | 100g | 0.1g | 3.25 x 3in |
| PV-200 | 200g | 0.1g | 3.25 x 3in |
| PV-500 | 500g | 0.1g | 3.25 x 3in |









HT Series Compact Scales



Ideal for classrooms! The stackable case takes up less space for storage

Standard functions









- Large LCD display with clearly visible characters (13.5mm)
- · External calibration
- Tare
- Battery operation with 4 AA size dry batteries (batteries are included)
- · Long battery life: approx. 500 hours with alkaline cells
- · Optional AC adapter
- Automatically turns off the display after 5 minutes of inactivity
- · Delivered with a storage box
- · Anti-theft lock
- Three color bars to sort scales easily not HT-120 (e.g., color coded identification depending on classroom, lab, application...)

| Model | Capacity | Resolution | Pan Size |
|---------|----------|------------|---------------|
| HT-120 | 120g | 0.01g | Ø 2.75in |
| HT-300 | 310g | 0.1g | 5.20 x 5.12in |
| HT-500 | 510g | 0.1g | 5.20 x 5.12in |
| HT-3000 | 3100g | 1g | 5.20 x 5.12in |
| HT-5000 | 5100g | 1g | 5.20 x 5.12in |

| Options & Accessories | Model |
|------------------------------|--------|
| Stainless Steel Weighing Pan | HT-10 |
| AC adapter (120Vac) | TB:662 |
| AC Adapter (220V) | FV-06 |

HL-i Series Compact Scales







- High weighing resolution (1/2,000)
- · Large LCD Display
- Calibration function
- · AC Adapter (option) or battery operation
- · Long Battery Life: approx. 450 hours with alkaline cells
- Auto Power OFF
- Batteries included (4 x AA)
- Low battery indicator
- Multi weighing units
- Tare
- · Overload protection

| Model | Capacity | Resolution | Pan Size |
|---------|----------|------------|----------|
| HL-200i | 200g | 0.1g | Ø 5.1in |
| HL-2Ki | 2000g | 1g | Ø 5.1in |

| Options & Accessories | Model |
|---|--------------|
| Stainless Steel Weighing Pan (for HL-i) | AX:043008052 |
| Plastic Carrying Case | AX-093008304 |
| AC adapter for the HL-i | TB:662 |









SJ Series Compact Scales



- · Stainless steel weighing pan
- Large LCD display
- · Short stabilization time less than 1 second
- Multiple weighing units g, lb, oz and lb-oz
- · Level bubble and adjustable feet for precise levelling
- Battery or AC adapter operation (AC adapter comes as option)
- · 4 type D batteries (batteries not included)
- Long battery life: approx. 1,600 hours with alkaline cells at 20°C
- · Simple and easy to change the batteries: battery tray at the back
- · Flat design for avoiding food traps
- · Hygiene NSF approved

| Model | Capacity | Resolution | Pan Size |
|-----------|---------------|------------------|-----------|
| SJ-1000HS | 2.2lb / 1000g | 0.001lb / 0.5g | 9 x 7.5in |
| SJ-2000HS | 4.4lb / 2000g | 0.002lb / 1g | 9 x 7.5in |
| SJ-5000HS | 11lb / 5000g | 0.005lb / 2g | 9 x 7.5in |
| SJ-5001HS | 11lb / 5000g | 0.002lb / 1g | 9 x 7.5in |
| SJ-12KHS | 26lb / 12kg | 0.01lb / 0.005kg | 9 x 7.5in |
| SJ-20KHS | 44lb / 20kg | 0.02lb / 0.01kg | 9 x 7.5in |
| SJ-30KHS | 66lb / 30kg | 0.05lb / 0.02kg | 9 x 7.5in |

| Accessories | Model |
|----------------------------|--------|
| AC adapter (120Vac) | TB:662 |
| AC Adapter 220V (optional) | FV-06 |

Standard functions











HT-CL Series Compact Scales



| Model | Capacity | Resolution | Pan Size |
|-----------|----------|------------|---------------|
| HT-300CL | 310g | 0.1g | 5.20 x 5.12in |
| HT-500CL | 510g | 0.1g | 5.20 x 5.12in |
| HT-3000CL | 3100g | 1g | 5.20 x 5.12in |
| HT-5000CL | 5100g | 1g | 5.20 x 5.12in |

| Options & Accessories | Model |
|------------------------------|----------|
| Stainless steel weighing pan | HT-OP-10 |

- Highly-visible, multi-colored LED lights for quick and unmistakable comparator judgments
- · 9 memories for comparator settings
- Negative values for comparator limits allow for checking weights that are taken out of (instead of added to) a container*1
- · Operation with either four AA batteries or the provided AC adapter
- · Large LCD display with 13.5-mm high characters
- Auto power OFF function to avoid wasting power
- Multiple weighing units: g, oz, ozt, lb-oz, dwt, ct, tael, tola and Newton*2
- Security slot at the back to accommodate an anti-theft lock
- Key lock function to prevent operators from making changes to the scale settings
- Comes in a stackable carrying case to save space when stored
- Includes three color bars (red, green and orange) for sorting the scales depending on the purpose, owner, point of use, etc.
- *1 The display needs to be set to zero before each measurement.
- *2 The comparator function cannot be used with lb-oz or tael, and lb-oz is not available with the HT-300CL.











HL-WP Series IP65 Compact Scales





Compact design

- Stainless steel case and weighing pan
- High resolution (1/3,000)

Dust and waterproof (IP65)

- · Low battery indicator
- Portable (6 AA type batteries, batteries not included)
- · Net weight and stability indicator
- Auto power OFF
- · Optional AC adapter

| Model | Capacity | Resolution | Pan Size |
|--------------|----------------|----------------|-------------|
| HL-300WP | 10.58oz / 300g | 0.01oz / 0.1g | 5 x 5in |
| HL-1000WP | 2.2lb / 1000g | 0.001lb / 0.5g | 5 x 5in |
| HL-3000WP | 6.6lb / 3000g | 0.002lb / x 1g | 5 x 5in |
| HL-3000LWP | 6.6lb / 3000g | 0.002lb / x 1g | 5.4 x 6.8in |
| HL-3000WPN* | 6.6lb / 3000g | 0.002lb / x 1g | 5 x 5in |
| HL-3000LWPN* | 6.6lb / 3000g | 0.002lb / x 1g | 5.4 x 6.8in |

^{*}Legal for Trade versions

| Options & Accessories | Model |
|-----------------------|--------|
| AC adapter (120V) | TB:662 |

Standard functions















SK-WP Series IP65 Compact Scales





















- · NTEP Certified and Measurement Canada Approved
- · Dust and waterproof (IP65)
- · Stainless steel body and weighing pan
- Large & clear LCD display (25mm)
- 1/2,000 Resolution (SK-5001WP: 1/5,000)
- · Net weight / Stability indication
- · Separate keys for Power and Re-Zero
- Portable (6 D type batteries, batteries not included)
- · Long battery life: approx. 1,200 hours with alkaline cells at 20°C
- · Low battery indication
- · Auto Power Off
- · Optional AC adapter

| Model | Capacity | Resolution | Pan Size |
|-----------|---------------|----------------|-------------|
| SK-1000WP | 2.2lb / 1000g | 0.001lb / 0.5g | 9.1 x 7.5in |
| SK-2000WP | 4.4lb / 2000g | 0.002lb / 1g | 9.1 x 7.5in |
| SK-5000WP | 11lb / 5000g | 0.005lb / 2g | 9.1 x 7.5in |
| SK-5001WP | 5000g | 1g | 9.1 x 7.5in |
| SK-10KWP | 22lb / 10kg | 0.01lb / 5g | 9.1 x 7.5in |
| SK-20KWP | 44lb / 20kg | 0.02lb / 10g | 9.1 x 7.5in |

| Options & Accessories | Model |
|-----------------------|--------|
| AC adapter (120Vac) | TB:662 |
| AC Adapter (220V) | FV-06 |

SJ-WP Series IP67 Checkweighing Compact Scales



| Model | Capacity | Resolution | Pan Size |
|-----------|-------------|-----------------|-------------|
| SJ-3000WP | 6.6lb / 3kg | 0.0002lb / 0.1g | 9.1 x 7.5in |
| SJ-6000WP | 13lb / 6kg | 0.0005lb / 0.2g | 9.1 x 7.5in |
| SJ-15KWP | 33lb / 15kg | 0.001lb / 0.5g | 9.1 x 7.5in |
| SJ-30KWP | 66lb / 30kg | 0.002lb / 1g | 9.1 x 7.5in |

- · IP67, dust and waterproof
- Externally mounted load cell to allow fast stabilization (max. 0.5 seconds)
- 5,000 hours of continuous operation with 6 D alkaline batteries (LED and backlight off) (batteries not included)
- · Large LCD display (26 mm character height) with white backlight
- Bright and multi-colored 5-step LED comparator lamps
- · Take-away check weighing using the auto-tare function
- · Stainless steel (SUS304) weighing pan
- Waterproof and anti-corrosive load cell with integrated overload protection mechanism
- Four selectable weighing resolutions from 1/3,000 up to 1/30,000
- · Auto tare function
- · Counting function
- · Auto power OFF function
- Multiple weighing units: g, kg, lb, oz, ozt, lb-oz, tael, tola, Newton
- · Battery life indicator

Standard functions

















EK-L Series Precision Bench Scales







- EK-15KL: Offers a large capacity and high resolution
- EK-30KL: Especially useful when the gross weight exceeds 15kg, yet 0.1 g readability is necessary to measure the net weight
- Large (300×210mm) weighing pan for measurements of bulky objects or quantities
- Hygienic and scratch-resistant stainless steel (SUS430) weighing pan
- · Easy-to-read LCD display, white backlight (22 mm characters)
- RS-232C interface as standard
- · GLP/GMP/GCP/ISO compliant output
- · Multiple weighing units: g, kg, oz, lb, ozt
- · Automatic Counting Accuracy Improvement (ACAI) function
- Operation with either AC adapter or optional rechargeable battery
- · Percent function, comparator function, display hold function

| Model | Capacity | Resolution | Pan Size |
|---------|------------|------------|-------------|
| EK-15KL | 15kg | 0.1g | 300 × 210mm |
| EK-30KL | 3kg / 30kg | 0.1g/1g | 300 × 210mm |

| Accessories | | Model |
|-------------|---------------------------|-----------|
| | Rechargeable battery pack | HC-OP-02i |

HV/W-KC(P) Series Multi-Functional Platform Scales



- Wide selection of capacities and resolutions. Choose from high capacity, high resolution HW-C(P) or multi-interval HV-C(P) models
- High-speed measurement—stabilization within 1 second (HV-C(P) series)
- IP65 dust & waterproof base unit with a stainless steel (SUS430) pan
- Built-in printer for creating paper-based records on the spot (CP models) includes Date & Time
- Operation with either AC adapter or dry cell batteries (AC Adaptor only for CP models)
- Up to 1200 hours from 4 D size batteries (C models)
- Highly-visible, LCD display (25 mm character height) with white backlight
- · Bright and multi-colored 5-step LED comparator lights
- Auto-tare, Negative weighing and Initial tare functions. Ideal for 'take-away' check weighing
- Alphanumeric keypad for quick entry of ID number, Pre-set tare, comparator limits etc.
- Key lock function to prevent operators from making changes to the scale settings
- · Optional roller conveyers for weighing in production lines
- Universal Flexi Coms (UFC) function to edit serial data output/ printout format. Enables control of barcode label printers etc.



IP65 base unit with a SUS430 pan

- Three Interface slots for optional communication interfaces including RS-232C, USB, comparator output, buzzer, control input
- Display hold: Counting: Accumulation: Key Lock: Auto-On/Off: Display working cover
- Adjustable display Angle: Optional 5m display extension cable and wall-mount bracket

HV/W-KC(P) Series

Multi-Functional Platform Scales









| Model | Capacity | Resolution | Pan Size |
|-----------|-----------------------------------|---|---------------|
| HV-15KC | 6/15/30 lb / 3/6/15 kg | 0.002/0.005/0.01 lb / 0.001/0.002/0.005 kg | 9.8 x 9.8in |
| HV-60KC | 30/60/150 lb / 15/30/60 kg | 0.01/0.02/0.05 lb / 0.005/0.01/0.02 kg | 13 x 16.7in |
| HV-200KC | 150/300/500 lb / 60/150/220 kg | 0.05/0.1/0.2 lb / 0.02/0.05/0.1 kg | 15.4 x 20.9in |
| HV-15KCP | 6/15/30 lb / 3/6/15 kg | 0.002/0.005/0.01 lb / 0.001/0.002/0.005 kg | 9.8 x 9.8in |
| HV-60KCP | 30/60/150 lb / 15/30/60 kg | 0.01/0.02/0.05 lb / 0.005/0.01/0.02 kg | 13 x 16.7in |
| HV-200KCP | 150/300/500 lb / 60/150/220 kg | 0.05/0.1/0.2 lb / 0.02/0.05/0.1 kg | 15.4 x 20.9in |
| HW-10KC | 20lb / 10kg | 0.002lb / 0.001kg | 9.8 x 9.8in |
| HW-60KC | 150lb / 60kg | 0.01lb / 0.005kg | 13 x 16.7in |
| HW-100KC | 200lb / 100kg | 0.02lb / 0.01kg | 15.4 x 20.9in |
| HW-200KC | 500lb / 220kg | 0.05lb / 0.02kg | 15.4 x 20.9in |
| HW-10KCP | 20lb / 10kg | 0.002lb / 0.001kg | 9.8 x 9.8in |
| HW-60KCP | 150lb / 60kg | 0.01lb / 0.005 kg | 13 x 16.7in |
| HW-100KCP | 200lb / 100kg | 0.02lb / 0.01kg | 15.4 x 20.9in |
| HW-200KCP | 500lb / 220kg | 0.05lb / 0.02kg | 15.4 x 20.9in |

Optional



| Options & Accessories Model | Model |
|--|-----------------|
| USB INTERFACE for HVW-C/CP | HVW-02CB |
| RS-232C INTERFACE for HVW-C/CP | HVW-03C |
| COMPARATOR RELAY OUT/BUZZER for HVW-C/CP | HVW-04C |
| Extension Cable (5m) | HVW-08C |
| Wall-mount bracket | HVW-11C |
| ROLLER CONVEYOR A36098 | HVW-13 |
| ROLLER CONVEYOR A36099 | HVW-14 |
| Swivel/Lock Caster for 30 lb & below capacities (each) | HVW-16SSC |
| Swivel/Lock Caster for above 30 lb capacities (each) | HVW-17LSC |
| AC adapter (120Vac)- spare/replacement for HV/W-C ONLY, (P printer models require TB:278, below) unit ships with an AC adapter | TB:662 |
| AC adaptor 100-240V for HV/W-CP series | TB:278 |
| AC Adapter (220V) with type C euro-prongs | FV-06 |
| 2.5" Diameter Non-Skid Foot | FT:10 |
| USB to DIN RS-232 Converter | AX-USB-2920-DIN |
| HV-CP HW-CP printer paper (5 rolls) | AX-PP147-S |

Standard functions

(C Models)



FG-K Series Platform Scales











| Model | Capacity | Resolution | Pan Size |
|-----------|---------------|-------------------|---------------|
| FG-30KBM | 60lb / 30kg | 0.005lb / 0.002kg | 11.8 x 15in |
| FG-60KBM | 150lb / 60kg | 0.01lb / 0.005kg | 11.8 x 15in |
| FG-150KBM | 300lb / 150kg | 0.02lb / 0.01kg | 11.8 x 15in |
| FG-30KAM | 60lb / 30kg | 0.005lb / 0.002kg | 11.8 x 15in |
| FG-60KAM | 150lb / 60kg | 0.01lb / 0.005kg | 11.8 x 15in |
| FG-150KAM | 300lb / 150kg | 0.02lb / 0.01kg | 11.8 x 15in |
| FG-60KAL | 150lb / 60kg | 0.01lb / 0.005kg | 15.4 x 20.9in |
| FG-150KAL | 300lb / 150kg | 0.02lb / 0.01kg | 15.4 x 20.9in |
| FG-200KAL | 400lb / 200kg | 0.02lb / 0.01kg | 15.4 x 20.9in |

| Options & Accessories | Model |
|---|-----------------|
| RS-232C Interface | FG-23 |
| Comparator/Setpoint Relay Outputs | FG-24 |
| Display Wall Mount Bracket | FG-25 |
| Carrying Handle | FG-26 |
| AC adapter (120Vac) | TB:662 |
| AC Adapter (220V) | FV-06 |
| FGK DISPLAY PROTECTIVE COVER | 07:3007527A |
| Swivel/Lock Caster for 30 lb & below capacities | HVW-16SSC |
| Swivel/Lock Caster for 30 lb capacity | HVW-17LSC |
| USB to DIN RS-232 Converter | AX-USB-2920-DIN |

Standard functions













(C Models)

Optional



- Comparator function
- Counting function
- Auto power OFF function
- · Status indicators (stable, zero, and net)
- High-speed weighing with 1-second stabilization
- · Washable and hygienic stainless steel weighing pan in two sizes
- Optional RS-232C and comparator output (FG-OP-23/FG-OP-24)
- Display unit either on a column (FG-KAM/KAL) or attached directly to the platform (FG-KBM)
- Three selectable weighing resolutions (non approved versions only)
- Approx.150 hours with 4 x C type dry-cell batteries, batteries not included

SW Series High Pressure Washdown - IP69K

Premium resistance to hostile environments!



The large LED screen is highly visible and intuitive. Capacitive keys prevent damage from sharp objects, thus contribute to maintain the integrity of the equipment



The desktop/wall-mount stand can be selected instead of the pole stand







| Model | Capacity | Resolution | Pan Size |
|----------|---------------|--------------------|---------------|
| SW-6KS | 13lb / 6kg | 0.001lb / 0.001kg | 9.8 x 9.8in |
| SW-15KS | 33lb / 15kg | 0.002lb / 0.002kg | 9.8 x 9.8in |
| SW-15KM | 33lb / 15kg | 0.002 lb / 0.002kg | 11.8 x 15.0in |
| SW-30KM | 66lb / 30kg | 0.005 lb / 0.005kg | 11.8 x 15.0in |
| SW-60KM | 130lb / 60kg | 0.01lb/ 0.010kg | 11.8 x 15.0in |
| SW-150KM | 330lb / 150kg | 0.02lb / 0.02kg | 11.8 x 15.0in |
| SW-60KL | 130lb / 60kg | 0.01lb / 0.01kg | 15.4 x 20.9in |
| SW-150KL | 330lb / 150kg | 0.02lb / 0.02kg | 15.4 x 20.9in |

| Options & Accessories | Model |
|--------------------------------------|--------|
| RS-232C plus compatator relay output | SW-03 |
| RS-422/485 | SW-04 |
| SW Indicator | SW-D |
| Wall mount bracket | SW-11 |
| Rechargeable Battery Pack | HC-06i |

Standard functions















Optional





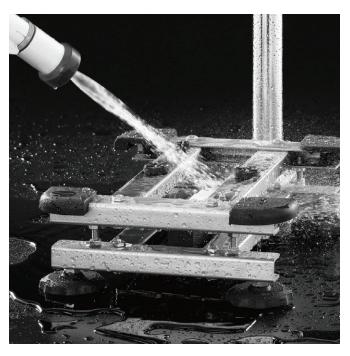
- · IP69K the highest level of dust and water-proofing:
- High pressure: ~ 10,000 kPa / 100 bars / 1,450 PSI
- High temperature: ~85°C
- · Auto tare (comparator)
- · Auto tare (initial weight)
- Auto tare (reload)
- Negative in addition to positive comparator (loss-in-weight and weight-in-weight batching)
- Grading
- · Ultimate protection against the effects of condensation
- Streamlined construction for easy cleaning of food-processing residues
- · Stainless steel: sensor, pan, framework, column
- · Durable and adjustable indicator bracket
- · Capacitive keys for light touch operation and robustness
- · Bright, multicolored LED display
- · 5-step comparator for check weighing and filling applications
- 5-level comparator output with color lights: red, orange, green
- · Desktop/wall-mount stand available instead of the pole stand
- Optional rechargeable battery
- Optional interfaces: RS-232C + comparator, RS-422 / RS-485

SC/SE

Washdown Platform Scales - IP68



Water jet cleaning



Stainless steel frame (SC)



Painted steel frame and column (SE)

- IP68 dust and water-proof: submersible at 1m under water for 24 hours!
- · Wash down construction for easy cleaning
- · High speed stabilization in 1 second
- · Battery operated
- 4,500 hours of continuous operation with 6 D batteries
- · Supersized LCD of 39 mm character height
- Stainless steel weighing pan and frame (SC)
- · Painted steel frame and column (SE)
- Waterproof and corrosion-resistant load cell (aluminium anodized and coated with epoxy resin with protective silicon over wiring)
- Comparator function
- · Counting function
- · Automatic power OFF
- · Multiple interfaces (options):
- RS-232C
- Quick USB
- Comparator output
- Easily switchable, multiple weighing units (kg, lb, oz, and pcs)

SC/SE

Washdown Platform Scales - IP68







SE-150KAM

SE-60KAL

SE-150KAL



| Model | Capacity | Resolution | Pan Size |
|-----------|---------------|------------------|---------------|
| SC-30KAM | 66lb / 30kg | 0.01lb / 0.005kg | 11.8 x 15in |
| SC-60KAM | 130lb / 60kg | 0.02lb / 60kg | 11.8 x 15in |
| SC-150KAM | 330lb / 150kg | 0.05lb / 0.02kg | 11.8 x 15in |
| SC-60KAL | 130lb / 60kg | 0.02lb / 0.01kg | 15.4 x 20.9in |
| SC-150KAL | 330lb / 150kg | 0.05lb / 0.02kg | 15.4 x 20.9in |
| SE-30KAM | 66lb / 30kg | 0.01lb / 0.005kg | 11.8 x 15in |
| SE-60KAM | 130lb / 60kg | 0.02lb / 60kg | 11.8 x 15in |

0.05lb / 0.02kg

0.02lb / 0.01kg

0.05lb / 0.02kg

11.8 x 15in

15.4 x 20.9in

15.4 x 20.9in

| Options & Accessories | Model |
|--|--------|
| Quick USB Interface | SCE-02 |
| RS-232C Interface with comparator relay output | SCE-03 |

330lb / 150kg

130lb / 60kg

330 b / 150kg

Standard functions



Optional



HV/HW-WP

Washdown Platform Scales - IP65



IP65- Washdown



Three platform sizes





| Model | Capacity | Resolution | Pan Size |
|-----------|---------------------------------|--|---------------|
| HV-15KWP | 6/15/30lb / 3/6/15kg | 0.002/0.005/0.01lb / 0.001/0.002/0.005kg | 9.8 x 9.8in |
| HV-60KWP | 30/60/150lb / 15/30/60kg | 0.01/0.02/0.05lb / 0.005/0.01/0.02kg | 13 x 16.7in |
| HV-200KWP | 150/300/500lb / 60/150/220kg | 0.05/0.1/0.2lb / 0.02/0.05/0.1kg | 15.4 x 20.9in |
| HW-10KWP | 20lb / 10kg | 0.002lb / 0.001kg | 9.8 x 9.8in |
| HW-60KWP | 150lb / 60kg | 0.01lb / 0.005kg | 13 x 16.7in |
| HW-100KWP | 200lb / 100kg | 0.02lb / 0.01kg | 15.4 x 20.9in |
| HW-200KWP | 500lb / 220kg | 0.05lb / 0.02kg | 15.4 x 20.9in |

| Options & Accessories | Model |
|--|-----------------|
| Display Extension Cable (17') | HVWP-02 |
| RS-232C & Comparator/Setpoints (relays & audio) | HVWP-03 |
| RS-422/485 & Comparator/Setpoints (relays) | HVWP-04 |
| Swivel/Lock Caster for 30 lb & below capacities (each) | HVW-16SSC |
| Swivel/Lock Caster for above 30 lb capacities (each) | HVW-17LSC |
| 2.5" Diameter Non-Skid Foot (each) | FT:10 |
| USB to DIN RS-232 Converter | AX-USB-2920-DIN |
| Mounting Bracket | AX-043005266 |

- · Washdown IP65/NEMA4 rated
- Bright VFD display
- · AC Mains power
- · lb, oz and counting modes
- Accumulator and comparator modes
- · Standard RS232 interface

















HW-CEP Series Intrinsically Safe Platform Scales

Removing the Barriers in Hazardous Environments









HW-10KCEP

HW-200KCEP

| Model | Capacity | Resolution | Pan Size |
|------------|---------------|-------------------|---------------|
| HW-10KCEP | 20lb / 10kg | 0.002lb / 0.001kg | 9.8 x 9.5in |
| HW-60KCEP | 150lb / 60kg | 0.01lb / 0.005kg | 13.0 x 16.7in |
| HW-100KCEP | 200lb / 100kg | 0.02lb / 0.01kg | 15.4 x 20.9in |
| HW-200KCEP | 500lb / 220kg | 0.05lb / 0.02kg | 15.4 x 20.9in |

















- IECEx/ATEX Certified Scales
- · Easy settings using the alphanumeric keypad
- · Auto-tare and negative comparison function
- · Counting mode and accumulation function
- · Highly-visible, backlit LCD display
- Easy and flexible installation with 1000+ hours of battery life

FS-i Series

Checkweighing Scales - IP65

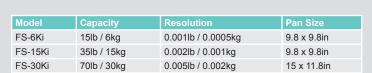


Auto tare (comparator) Auto tare (initial weight) Auto tare (reload)

Negative and positive Checkweighing







| Options & Accessories | Model |
|---|--------|
| Rechargeable Battery Pack | HC-06i |
| 21.5" Extension Column (Only for FS-30Ki) | FS-C |
| Wall Mount Bracket | FS-01i |
| RS-232C & Relay Output | FS-03i |
| RS-485 & Relay Output | FS-04i |

Standard functions



















- Ultra fast weighing response only 0.5 seconds!
- Intuitive operation
- · IP65 Dust and Waterproof
- · Comparator function with LO, OK or HI
- Large comparator lights
- · Analog bar display 3 modes
- · Memory for 99 products
- · Hygiene NSF certified
- · Large backlit LCD display
- Rechargeable battery pack (optional)
- Filtering function
- Buzzer

Optional





HC-i Series Counting Scales





| Model | Capacity | Resolution | Pan Size |
|---------|-------------|--------------------|--------------|
| HC-3Ki | 6lb / 3kg | 0.001lb / 0.0005kg | 11.8 x 8.3in |
| HC-6Ki | 15lb / 6kg | 0.002lb / 0.001kg | 11.8 x 8.3in |
| HC-15Ki | 30lb / 15kg | 0.005lb / 0.002kg | 11.8 x 8.3in |
| HC-30Ki | 60lb / 30kg | 0.01lb / 0.005kg | 11.8 x 8.3in |

| Options & Accessories | Model |
|-------------------------------|-----------------|
| RS-232C for HC-i | HC-03i |
| RS-232C relay output for HC-i | HC-04i |
| Rechargeable Battery Pack | HC-06i |
| Extension Cable (2m) | HC-08i |
| AC adapter (120Vac) | TB:662 |
| AC Adapter (220 V) | TB:164 |
| USB to DIN RS-232 Converter | AX-USB-2920-DIN |

- High resolution of 1/600,000 or 1/750,000
- · Ability to count even small objects down to 0.005g
- · 3 methods to initialize unit weights: sample, memory, and keyboard
- · Large memory for 99 products incl. tare, unit weight and comparator limits
- · Navigation system with LEDs indicating active keys for easy and faster operation
- Automatic Counting Accuracy Improvement (ACAI)
- · Comparator with HI (exceeding), OK, and LO (insufficient) results
- · Accumulation function totals piece count into memory
- · Beeping function with frequency variation as you approach your preset target
- · UFC: easy formatting of your RS-232C outputs and labels for printers (Universal Flexible Comms)

























HD Series Counting Scales



| Model | Capacity | Resolution | Pan Size |
|---------|--------------|--------------------|-------------|
| HD-12KA | 30lb / 12kg | 0.005lb / 0.0005kg | 11.8 x 15in |
| HD-30KA | 60lb / 30kg | 0.01lb / 5g | 11.8 x 15in |
| HD-60KA | 120lb / 60kg | 0.02lb / 10g | 11.8 x 15in |
| HD-12KB | 30lb / 12kg | 0.005lb / 2g | 11.8 x 15in |
| HD-30KB | 60lb / 30kg | 0.01 lb / 5 g | 11.8 x 15in |
| HD-60KB | 120lb / 60kg | 0.02 lb / 10 g | 11.8 x 15in |

| Options & Accessories | Model |
|--|-----------------|
| Serial Interface (RS-232C/Current Loop) | HD-03 |
| Comparator Output | HD-04 |
| 20mA Current Loop | HD-05 |
| Carrying Handle | HD-06 |
| Rechargeable Battery Pack | AD-1681 |
| AC adapter (120Vac)- spare / replacement. Unit ships with an AC adapter. | TB:662 |
| AC Adapter (220V) | TB:164 |
| USB to 25 pin RS-232 Converter | AX-USB-2920-25P |

Note: can also use six (6) "C" batteries (not included)

- High internal resolution up to 1/120,000 counts for accurate parts counting
- Detachable display and large, stainless steel platform are ideal for weighing oversized containers
- Increased counting accuracy with Automatic Count Accuracy Improvement (ACAI), which automatically corrects errors caused by variation in unit weights
- Detachable display and large, stainless steel platform are ideal for weighing oversized containers
- Intuitive operation with either standard keys (HD-A) or 10-digit keypad (HD-B)

Standard functions



Optional



FC-i/FC-Si

High-Performance Counting Scales

More flexible and versatile with additional options



Optional interface to remote scale for bulk counting



Simple operation and easy to read Vacuum Fluorescent Display



FC-Si with optional traffic light and optional comparator relay interface

| Model | Min. Unit Piece Weight (internal resolution) | Capacity | Resolution | Pan Size |
|-----------|--|--------------|------------------|-------------|
| FC-500Si | 0.0001g | 1lb /500g | 500g / 0.02g | 5 x 5in |
| FC-5000Si | 0.001g | 10lb /5kg | 5kg / 0.2g | 6.5 x 6.5in |
| FC-500i | 0.0005g | 1lb / 500g | 0.0001lb / 0.05g | 8 x 6in |
| FC-1000i | 0.001g | 2lb / 1kg | 0.0002lb / 0.1g | 8 x 6in |
| FC-2000i | 0.002g | 5lb / 2kg | 0.0005lb / 0.2g | 11.8 x 11in |
| FC-5000i | 0.005g | 10lb / 5kg | 0.001lb / 0.5g | 11.8 x 11in |
| FC-10Ki | 0.01g | 20lb / 10kg | 0.002lb / 1g | 11.8 x 11in |
| FC-20Ki | 0.02g | 50lb / 20kg | 0.005lb / 2g | 11.8 x 11in |
| FC-50Ki | 0.05g | 100lb / 50kg | 0.01lb / 5g | 11.8 x 11in |

| Options & Accessories | Model |
|---|--------|
| Rechargeable Battery Pack | FC-02i |
| Second & Third RS-232C | FC-03i |
| RS-232C/Comparator Relays | FC-04i |
| Remote Scale Connection | FC-05i |
| Demo/Carrying / Storage Case | CC:110 |
| AC Adapter (120V) | TB:636 |
| HR-i, FP, HA, HX, GP, FR, SV10/100, SV-A, GH, FC, FC-I, FC-SI | TB:137 |
| 2" Diameter Non-Skid Foot (each) | FT:8 |

Optional



- High internal resolution: 1/10,000,000 (FC-Si), and 1/1,000,000 (FC-i)
- Up to 3 RS-232C ports (option)
- 4 methods to initialize the unit weight: sample, memory, keyboard input, bar code
- FC-Si models come with SHS sensor, same as one of our laboratory balances
- Large memory for up to 500 IDs (ID, name, unit weight, tare, comparator limit)
- Navigation system with LEDs indicating active keys for easy and faster operation
- Automatic counting accuracy improvement (ACAI)
- · Comparator with HI (exceeding), OK, and LO (insufficient) results
- · Accumulation function totals piece count into memory
- Remote platform option offers bulk counting
- UFC: easy formatting of your RS-232C outputs and labels for printers (Universal Flexible Comms)
- Optional rechargeable battery pack (NiMH)







- · Four models ranging from 30lb to 500lb capacity
- · Easy-to-clean, removable stainless steel weighing platform
- Two (2) year warranty
- · Water and dust resistant load cell sensor

| Model | Capacity | Pan Size |
|-----------|---------------|---------------|
| SB-15K10 | 30lb / 15kg | 9.8 x 9.8in |
| SB-60K11 | 150lb / 60kg | 13 x 16.7in |
| SB-100K12 | 200lb / 100kg | 15.4 x 20.8in |
| SB-200K12 | 450lb / 220kg | 15.4 x 20.8in |

Standard functions



AD-4329A Digital Weighing Indicator





- · Vacuum Fluorescent Display
- · Standard RS-232C interface
- · 4-point digital linearization
- Triple range on weighing capacity are available
- · Automatic or manual storage of accumulated data
- · Comparator output to optional relays
- · Set-point comparison for batching applications
- Select weighing range (up to triple range)
- 1/20,000 displayed count resolution (maximum)
- · Powers up to 8 units of load cells
- · Controllable via external input
- · Mount on panel, column or desk top
- · Use the keypad to enter the predetermined tare weight

| Model | Description |
|----------|----------------------------|
| AD-4329A | Digital Weighing Indicator |

| Options and Accessories | Model |
|--|-----------------|
| BCD Output | AD-4329A-01 |
| Relay Outputs | AD-4329A-02 |
| AC adapter (120Vac)- spare / replacement. Unit ships with an AC adapter. | TB:662 |
| USB to 25 pin RS-232 Converter | AX-USB-2920-25P |

AD-4401A Digital Weighing Indicator



- Powerful vibration-cancelling filter (High Performance Digital Filter)
- · 100 times/sec. High speed sampling
- Up to 1 million counts of A/D resolution
- High display resolution up to 1/16,000
- Sub display provides feedback on all set points & simplifies calibration
- Digital Span Calibration enhances technical support and difficult installations

| Model | Description |
|----------|----------------------------|
| AD-4401A | Digital Weighing Indicator |

| Options & Accessories | Model |
|--------------------------------------|-----------------|
| Parallel BCD Output (Open Collector) | AD-4401A-01 |
| RS-422/485 Serial Interface | AD-4401A-03 |
| RS-232C Serial Interface | AD-4401A-04 |
| Setpoint Unit | AD-4401-05 |
| Analog Output (4~20mA) | AD-4401A-07 |
| Adapter Bracket to replace AD-4323 | AD-4401-10 |
| USB to 25 pin RS-232 Converter | AX-USB-2920-25P |

Standard functions







AD-4402 Batch Weighing Indicator









- Batch weighing with 11 control inputs
- Large and easy to read Vacuum Fluorescent Display (VFD)
- Fast and precise with 100 A/D conversions per second
- · Twin displays show weight and operational details
- 10 digit keypad and function buttons for easy operation
- Pre-programmed with multiple sequences and functions
- · Stores 100 data points for raw materials and recipes

| Model | Description |
|---------|----------------------------|
| AD-4402 | Digital Weighing Indicator |

| Options & Accessories | Model |
|---------------------------------------|-----------------|
| BCD Output | AD-4402-01 |
| Relay Output | AD-4402-02 |
| RS-422/485 | AD-4402-03 |
| RS-232C | AD-4402-04 |
| Parallel I/O | AD-4402-05 |
| Analog Output | AD-4402-07 |
| Adapter Bracket to replace AD-4325A/V | AD-4402-10 |
| CC Link Interface | AD-4402-20 |
| Device Net Interface | AD-4402-21 |
| USB to 25 pin RS-232 Converter | AX-USB-2920-25P |

AD-4406A Digital Weighing Indicator





Standard functions













- UFC allows you to customize the protocol of the printing format as well as outputting the data with RS-232C
- · Multi interval 2 weighing ranges selectable
- Accumulation Function-stored into memory automatically or manually
- Comparator Function Upper/Lower, HiHi/Hi/OK/Lo/Lolo & comparison

| Model | Description |
|----------|----------------------------|
| AD-4406A | Indicator, General Purpose |

| Options & Accessories | Model |
|---|----------------|
| Wall Mount Bracket | AD-4406-01A |
| RS-422/485/Relays | AD-4406-03 |
| RS-232C with relays | AD-4406-05 |
| Analog Output (4-20mA) | AD-4406-07 |
| AC adapter (120Vac)- spare / replacement. Unit ships with an AC adapter. | TB:662 |
| AC Adapter (220V) | TB:164 |
| USB to 9 pin RS-232 Converter | AX-USB-2920-9P |

AD-4407 Digital Weighing Indicator





















- · Large and easy to read Vacuum Fluorescent Display (VFD)
- · Robust stainless steel construction
- High display resolution of 1/20,000
- IP65 rated allows for easy cleaning and reduces contamination
- 10 digit keypad and function buttons for easy operation
- Quickly determine if a weight count is below, within or above target with the built-in comparator function and audible buzzer alert
- Pre-programmed with multiple functions including: Accumulation, Comparator, Counting and Batching
- Easily format printouts with built-in Universal Flex Coms (UFC)

| Model | Description |
|---------|--|
| AD-4407 | Indicator, Washdown, Stainless Steel Housing, 0-9 keys |

| Options and Accessories | Model |
|-------------------------|------------|
| RS-422/485/Relays | AD-4407-03 |
| RS-232C with relays | AD-4407-05 |
| Analog Output (4-20mA) | AD-4407-07 |

AD-4410 High Speed Weighing Indicator



- Powerful vibration-cancelling function (High Performance Digital Filter)
- · High speed sampling (100 times/second), high accuracy
- · Circuits equipped with powerful noise reduction
- · Accurate linear correction function using high-order equations
- · Average holding function
- · Comes equipped with Modbus-RTU

| Model | Description |
|---------|---------------------------------------|
| AD-4410 | Indicator, General Purpose |
| | · · · · · · · · · · · · · · · · · · · |

| Options and Accessories | Model |
|-------------------------|------------|
| RS-485 DIN connector | AD-4410-03 |
| RS-232 DIN connector | AD-4410-04 |
| Desk stand | AD-4410-11 |

Standard functions









SW-D IP69K Weighing Indicator



Standard functions













- IP69K the highest level of dust and water-proofing:
- High pressure: ~ 10,000 kPa / 100 bars
- High temperature: ~85°C
- · Ultimate protection against the effects of condensation
- · Capacitive keys for light touch operation and durability
- Bright, multicolored LED display
- · 5-step comparator for check weighing and filling applications
- 5-level comparator output with color lights: red/orange/green
- Auto tare
- · Negative weighing
- Grading
- · Pre configured fixed capacities / resolutions
- · Optional desktop/wall-mount bracket

Description

- · Optional rechargeable battery
- Optional interfaces: RS-232C + comparator, and RS-422 / RS-485

| SW-D | SW-D Indicator | SW-D Indicator | |
|---------------|--------------------------|----------------|--|
| Options & A | Accessories | Model | |
| Internal, rec | hargeable battery | HC-OP-02i | |
| RS-232C & | comparator relay output* | SW-OP-03 | |
| RS-422/485 | * | SW-OP-04 | |
| Short pole (| SW-6KS/SW-15KS) | SW-OP-09 | |
| Long pole | | SW-OP-10 | |
| Desktop/wal | II-mount stand | SW-OP-11 | |

FS-D IP65

Indicator with 3-level Comparator





| Model | Description |
|-------|----------------|
| FS-D | FS-D Indicator |

| Options & Accessories | Model |
|---------------------------|--------|
| Rechargeable Battery Pack | HC-06i |
| RS-232C & Relay Output* | FS-03i |
| RS-485 & Relay Output* | FS-04I |

Note: * FS-03i and FS-04i cannot be used at the same time.

Standard functions



















- · Intuitive operation
- · IP65 dust and waterproof
- · Comparator function with LO, OK, or HI
- · Large comparator lights
- Buzzer
- · Analog sweep display 3 modes
- · Memory for 99 products
- · Hygiene NSF certified
- · Large LCD display with backlight
- Rechargeable battery pack (optional)
- Filtering function
- Auto tare
- · Negative weighing
- · Desktop/wall-mount bracket included as standard

Optional





AD-4212A, AD-4212B

High Speed Production Weighing Sensor

Ensures maximum efficiency of your production line

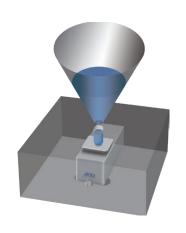
For applications such as:

- High-speed weighing
- High-speed check weighing
- Filling
- Isolated weighing

Fast, Precise, Compact, Durable







| Model | Capacity | Resolution | Pan Size |
|---------------|----------|--------------|-----------|
| AD-4212A-100 | 110g | 0.1mg | 50 × 50mm |
| AD-4212A-200 | 210g | 1mg | 50 × 50mm |
| AD-4212A-600 | 610g | 1mg | 50 × 50mm |
| AD-4212A-1000 | 1100g | 1mg | 70 × 70mm |
| AD-4212B-23 | 21g | 0.001mg | Ø 34mm |
| AD-4212B-101* | 110g/31g | 0.1mg/0.01mg | Ø 34mm |
| AD-4212B-102 | 110g | 0.01mg | Ø 34mm |
| AD-4212B-201 | 210g | 0.1mg | 50 × 50mm |
| AD-4212B-301 | 310g | 0.1mg | 50 × 50mm |

* Smart Range (see icon definition)

| Options & Accessories | Model |
|---|---------------|
| BCD output/external contact input | AD4212A-OP-01 |
| Comparator output (only AD-4212A) | AD4212A-OP-04 |
| Extension cable 3m | AD4212A-OP-07 |
| Ethernet interface (with application software WinCT-plus in CD-ROM) | AD4212A-OP-08 |
| Stainless steel breeze break (standard for AD-4212A-100 and all B models) | AD4212A-OP-19 |
| Metal levelling foot | AD4212A-OP-20 |
| Static eliminator | AD-1683 |

Optional



- · High resolution and quick stabilization times
- Possibility to use a weighing pan of your own design for holding special objects
- · Standard RS-232C interface
- The AD-4212A offers 3-level comparator with contact output and buzzer
- The AD-4212B offers 5-level comparator with contact output and buzzer
- External digital inputs to trigger actions such as RE-ZERO or PRINT
- · Data memory, GLP and GMP compliant
- WinCT: software tool for data acquisition from PC
- Multiple weighing units: g, mg, OZ, Lb, LOZ, Ozt, ct, mom, dwt, GN, TL, t, MS, PCS (counting) and Pct (%)
- · 2m connection cable in between sensor and indicator
- Protection against vertical or transverse shocks patented (AD-4212B)

Standard functions



(AD-4212B-101)

AD-4212C

High Speed Production Weighing Sensor



Fast: down to 0.5s Precise: down to 1mg Compact: 59mm width Durable: with IP65



Autonomous operation with optional AD-8922A controller.

(AD-8922A can also interface with a PC or a PLC)



Direct connection of sensor to PC or PLC by RS-232C

| Model | Capacity | Resolution | Pan Size |
|----------------|------------|------------|-----------|
| AD-4212C-301* | 51g/320g | 0.1mg/1mg | 50 × 50mm |
| AD-4212C-300 | 320g | 1mg | 50 × 50mm |
| AD-4212C-600 | 610g | 1mg | 50 × 50mm |
| AD-4212C-3100* | 510g/3200g | 1mg/10mg | 50 × 50mm |
| AD-4212C-3000 | 3200g | 10mg | 50 × 50mm |
| AD-4212C-6000 | 6100g | 10mg | 50 × 50mm |

^{*} Smart Range (see icon definition)

AD-4212C-300

| Options & Accessories | Model |
|--------------------------------------|-------------|
| Remote controller and display unit | AD-8922A |
| Remote controller with BCD interface | AD-8923-BCD |
| Remote controller with CC interface | AD-8923-CC |
| Static eliminator | AD-1683 |















- · High resolution and quick stabilization times
- · Possibility to use a weighing pan of your own design for holding special objects
- · Protected against vertical and transverse overloading (patent pending)
- · Outputs digital weighing data directly to a panel computer, PLC, or PC via standard RS-232C interface
- Analog, comparator, and BCD outputs are also available when using the optional AD-8922A controller
- · High-speed data transmission of up to 50 times/second
- IP65 dust and water-proof construction for powder or liquid
- · Easy calibration and response speed adjustment using WinCT-AD4212 software
- · Calibration weight included
- Connection cable included (about 5m)
- · Securable to a base by replacing levelling feet with screws

Load Cells Single Point Load Cells





LC-4102





| Model | Capacity |
|--------------|----------------|
| LC-4101-G600 | 1.2lb / 600g |
| LC-4101-K1.5 | 3lb / 1.5kg |
| LC-4101-K003 | 6lb / 3kg |
| LC-4101-K006 | 12lb / 6kg |
| LC-4101-K015 | 30lb / 15kg |
| LC-4102-K010 | 20lb / 10kg |
| LC-4102-K015 | 30lb / 15kg |
| LC-4102-K030 | 60lb / 30kg |
| LC-4102-K060 | 120lb / 60kg |
| LC-4102-K150 | 330lb / 150kg |
| LC-4103-K060 | 120lb / 60kg |
| LC-4103-K100 | 200lb / 100kg |
| LC-4103-K150 | 300lb / 150kg |
| LC-4204-K300 | 600lb / 300kg |
| LC-4204-K600 | 1200lb / 600kg |
| | |

| Options & Accessories | Model |
|-----------------------------------|---------------|
| Load Cell Connector (Male) | JM:NJC-207-RM |
| Load Cell Connector (Female) | JM:NJC-207-PF |
| Load Cell Connector for HV/HW | JT:171822-5 |
| Summing Box (60-90 day lead time) | AD-4382 |

ACCESSORIES





AD-1688

Weighing Data Logger

Save, Carry, and Retrieve! Handheld device that lets you collect weighing data without connecting the balance or scale to a PC!





- Dual interface: An RS-232C interface to import weighing data from an A&D balance or scale and a USB interface to export the data to a PC (no driver software is required)
- Large memory: approx. 5000 weighing data sets (in the A&D standard format) can be stored
- · Internal clock: date, time, & seq. N° added to weighing data
- · Interval mode: periodic data acquisition
- Complex data records: records containing multiple data (tare, unit weight, weight, count, comparison result, product name...).
- No battery required: receives power supply directly from a balance, scale or PC

| Model | Description |
|---------|----------------------|
| AD-1688 | Weighing Data Logger |

AD-1687 Weighing Environment Logger

Time-stamped recording of environmental and weighing data. Environmental data are produced by AD-1687 embedded sensors. Weighing data is acquired from a balance.



- · Add environmental data to your weighing records:
 - » Temperature (°C/°F),
 - » Humidity (%),
 - » Barometric pressure (hPa),
 - » Vibration (mG)
- · Large memory capacity of 10,000 data sets
- · Graphic and numeric display of information
- Connects to balance by RS-232C and to PC by USB
- · Time stamping of data

| Model | Description |
|---------|-----------------------------|
| AD-1687 | Weighing Environment Logger |

AD-1641 Air Flow and Environment Logger



- High precision, fast response air flow sensor to capture lowvelocity air flows of 0 to 1.00 m/s
- Measure and record four additional environmental data temperature, humidity, barometric pressure and vibration
- Alarm for abnormal values (comparator function)

| Model | Description |
|---------|---------------------------------|
| AD-1641 | Air Flow and Environment Logger |

AD-1691 Weighing Environment Analzyer



- · Calculates minimum weight according to USP
- Calibration uncertainty calculation based on 7 uncertainty components
- Assess your measurement environment using AND-MEET with BM Series balances

| Model | Description |
|---------|-------------------------------|
| AD-1691 | Weighing Environment Analzyer |

AD-1683 **Static Eliminator**



- The AD 1683 generates positive and negative ions to eliminate static electricity, which is often the cause of inaccurate weighing
- Ideal for treating your glassware, Petri dishes, powders, samples, etc.
- · No fan, no breeze is produced, ideal for powders.
- · Easily and safely connected; requires no high-voltage wiring
- · Compact and lightweight:
 - » Size without its U shaped stand
 - 112mm (L) × 92mm (W) × 40mm (H)

| Model | Description |
|---------|-------------------|
| AD-1683 | Static Eliminator |

AD-1684 **Electrostatic Field Meter**



- Electrostatic field meter designed for detecting static electricity, which is often the cause of inaccurate weighing
- Size: 123mm (L) × 73mm (W) × 25mm (H)

| Model | Description |
|--------|---------------------------|
| AD1684 | Electrostatic Field Meter |

AD-8526 **Ethernet Converter**



- · Converts RS-232 serial signal to Ethernet
- · Allows Ethernet interface to A&D devices
- Works with all A&D balances equipped with RS-232
- Input/output is 9 pin M serial connector, requires 9 pin F to 9 p or 25 pin depending on device being connected, so choose the kit with appropriate cable below.

| Model | Description |
|------------|---|
| AD-8526-9 | Ethernet Convertor with D sub 9 cable |
| AD-8526-25 | Ethernet Convertor with D sub 25 cable |
| AD-8526-7 | Ethernet Convertor with 7 pin DIN cable |

AD-8529 Series **Bluetooth Converter**





AD-8529PR-W

- · Replaces serial cable for direct paired connection
- AD-8529PC-W for balance / scale direct to PC connection.
 Comes with USB transceiver for use with PC or laptop
- AD-8529PR-W for balance / scale direct connect to A&D printers, including AD-8127
- Each comes with 2 transceivers, which automatically pair
- Cannot be used with built-in Bluetooth of laptops or mobile devices – requires use of the provided transceiver

| Model | Description |
|-------------|---------------------------------|
| AD-8529PC-W | Bluetooth Converter for PC |
| AD-8529PR-W | Bluetooth Converter for Printer |

AX-USB-2920 USB to RS232 Convertor

- Transfer data and control A&D balances with this USB-to-RS232 serial convertor and cable set
- · Use with A&D WinCT to transfer, capture and graph weighing data
- · Choose kit below with convertor and cable.

| Model | Description |
|-----------------|---|
| AX-USB-2920-9P | RS-232-to-USB convertor with 9 pin RS-232 cable (6ft) |
| AX-USB-2920-25P | RS-232-to-USB convertor with 25 pin RS-232 cable (6ft) |
| AX-USB-2920-DIN | RS-232-to-USB convertor with 7 pin DIN RS-232 cable (6ft) |

AD-8922A Remote Controller



- The AD-8922A is a remote controller that can be connected to certain A&D weighing instruments in order to display and control the weighing instrument remotely
- · Same keys as on most A&D balances
- Perfect for use with glove boxes or outside of environmental chambers

| Model | Description |
|----------|-------------------|
| AD-8922A | Remote Controller |

AD-8920A Remote Display



- · With this unit, weighing values can be viewed in a remote area
- Can be used with all A&D products using the RS-232C interface
- · Bright Vacuum Fluorescent Display

| Model | Description |
|----------|----------------|
| AD-8920A | Remote Display |

AD-1682 Rechargeable Battery Unit



- · Ideal for mobile operation in the field
- Compatible products: GH, GR, HR, GX, GF, GP, EK-i, EW-i, FC-i, HC-i, FX-i, FZ-i, FX-i-WP, FZ-i-WP

| Specifications | |
|----------------|---|
| Weight | Approx. 1.1kg |
| Battery life | 4-50 hours, depending on operating conditions and connected devices |
| Dimensions | 57(H) × 96(W) × 124(D) mm |
| Battery type | Nickel-metal-hydride (Ni-MH) battery |

| Model | Description |
|---------|-------------------------------------|
| AD-1682 | Rechargeable Portable Power Ssupply |

AD-1192 **Compact Printer**



- · Impact printing for a temperature-insensitive record
- · Uses plain paper rolls

Statistical function
Date & time

AD-8529PR-W

WP:PP137

AX-PP173-S

· Palm-sized

| Model | Description |
|---------|-----------------|
| AD-1192 | Compact Printer |

| Accessories | |
|--|-----------|
| Roll Paper (5 Rolls) | WP:PP137 |
| Replacement Ribbon | AD-1192-1 |
| Replacement Power Cord | AD-1192-2 |
| RS-232C Interface Cable to Balances, Scales & Indicators with 25 pin connection | KO:1131 |
| RS-232C Interface Cable to BM/HR-A/Z, EJ/EK-i/EWi/FC-i/FCSi/GH/FX-i(WP)/FZi(WP)/JM | KO:WW9-25 |
| RS-232C Interface Cable to FG-K /HCi /HV /HV-G /HW-G / HV-WP /HW-WP | KO:WW25-7 |

Impact dot-matrix printing on plain paper rolls (resists thermal fading)

· Wireless printing from A&D balances and scales when used with

Roll paper (5 rolls)

Dust-free printer paper

AD-8127

Multifunction

Printer



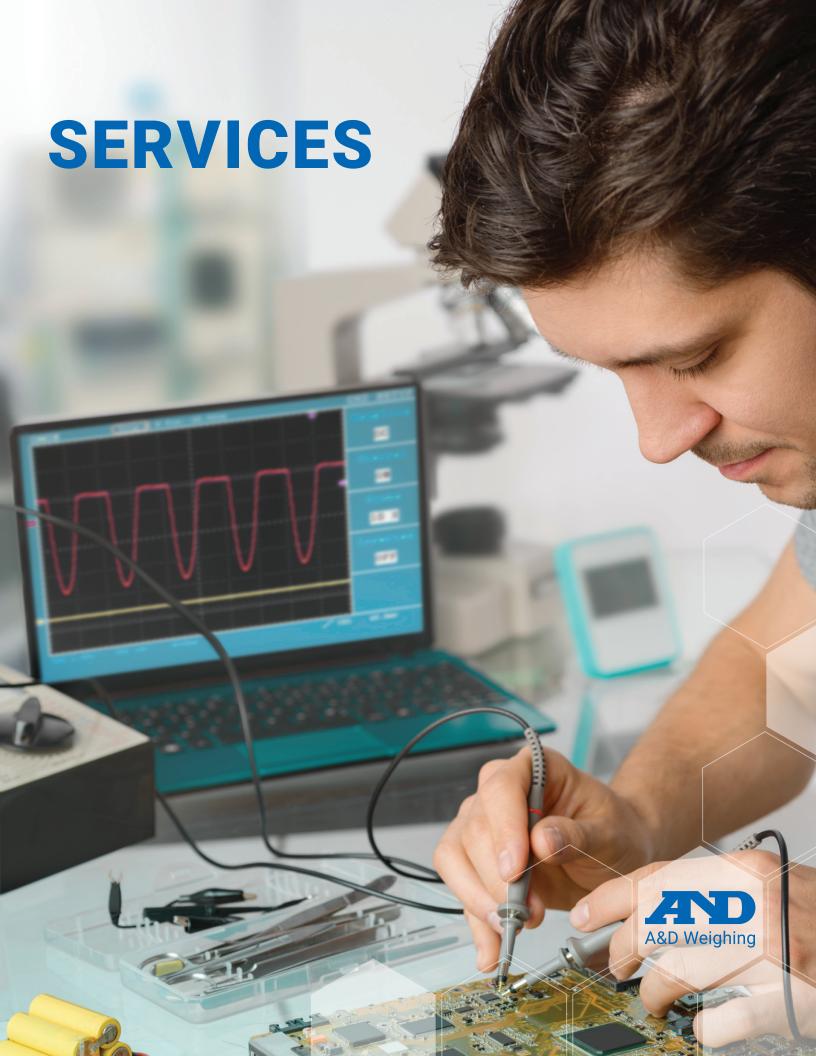
Calibration Weights

Calibration Weights & Sets Non-Certification (10 DAY LEAD TIME)

| Model | Description |
|---------------|---------------------------|
| AD-1700-1MG | 1mg - Class I |
| AD-1700-5MG | 5mg - Class I |
| AD-1700-10MG | 10mg - Class I |
| AD-1700-20MG | 20mg - Class I |
| AD-1700-50MG | 50mg - Class I |
| AD-1700-100MG | 100mg - Class I |
| AD-1700-200MG | 200mg - Class I |
| AD-1700-300MG | 300mg - Class I |
| AD-1700-500MG | 500mg - Class I |
| AD-1700-1G | 1g - Class I |
| AD-1700-2G | 2g - Class I |
| AD-1700-5G | 5g - Class I |
| AD-1700-10G | 10g - Class I |
| AD-1700-20G | 20g - Class 1 |
| AD-1700-50G | 50g - Class 1 |
| AD-1700-100G | 100g - Class 1 |
| AD-1700-200G | 200g - Class 1 |
| AD-1700-300G | 300g - Class 1 |
| AD-1700-400G | 400g - Class 1 |
| AD-1700-500G | 500g - Class 1 |
| AD-1700-1KG | 1kg - Class 1 |
| AD-1700-2KG | 2kg - Class 1 |
| AD-1700-3KG | 3kg - Class 1 |
| AD-1700-4KG | 4kg - Class 1 |
| AD-1700-5KG | 5kg - Class 1 |
| AD-1700-10KG | 10kg - Class 1 |
| AD-1700-20KG | 20kg - Class 1 |
| AD-1800-1M | 100g - 1mg set - Class 1 |
| AD-1800-10M | 100g - 10mg set - Class 1 |
| AD-1800-1G | 100g - 1g set - Class 1 |
| AD-1800-10K | 1kg - 1mg set - Class 1 |
| AD-1800-10G | 1kg - 1g set - Class 1 |
| AD-1800-5M | 5kg - 1mg set - Class 1 |
| AD-1800-5G | 5kg - 1g set - Class 1 |
| | |

Calibration Weights with NIST Traceable Certification (30-90 DAY LEAD TIME)

| Model | Description |
|-----------------|---------------------------|
| AD-1700-1MG-C | 1mg - Class I |
| AD-1700-5MG-C | 5mg - Class I |
| AD-1700-10MG-C | 10mg - Class I |
| AD-1700-20MG-C | 20mg - Class I |
| AD-1700-50MG-C | 50mg - Class I |
| AD-1700-100MG-C | 100mg - Class I |
| AD-1700-200MG-C | 200mg - Class I |
| AD-1700-300MG-C | 300mg - Class I |
| AD-1700-500MG-C | 500mg - Class I |
| AD-1700-1G-C | 1g - Class I |
| AD-1700-2G-C | 2g - Class I |
| AD-1700-5G-C | 5g - Class I |
| AD-1700-10G-C | 10g - Class I |
| AD-1700-20G-C | 20g - Class 1 |
| AD-1700-50G-C | 50g - Class 1 |
| AD-1700-100G-C | 100g - Class 1 |
| AD-1700-200G-C | 200g - Class 1 |
| AD-1700-300G-C | 300g - Class 1 |
| AD-1700-400G-C | 400g - Class 1 |
| AD-1700-500G-C | 500g - Class 1 |
| AD-1700-1KG-C | 1kg - Class 1 |
| AD-1700-2KG-C | 2kg - Class 1 |
| AD-1700-3KG-C | 3kg - Class 1 |
| AD-1700-4KG-C | 4kg - Class 1 |
| AD-1700-5KG-C | 5kg - Class 1 |
| AD-1700-10KG-C | 10kg - Class 1 |
| AD-1700-20KG-C | 20kg - Class 1 |
| AD-1800-1M-C | 100g - 1mg set - Class 1 |
| AD-1800-10M-C | 100g - 10mg set - Class 1 |
| AD-1800-1G-C | 100g - 1g set - Class 1 |
| AD-1800-10K-C | 1kg - 1mg set - Class 1 |
| AD-1800-10G-C | 1kg - 1g set - Class 1 |
| AD-1800-5M-C | 5kg - 1mg set - Class 1 |
| AD-1800-5G-C | 5kg - 1g set - Class 1 |



Service

Get the Most out of Your Investment

A&D Weighing offers accurate and reliable measurement equipment and we want to ensure your satisfaction over the lifetime of our equipment.

Our depot repair centers provide repair services for all A&D Weighing Equipment including warranty repairs and flat-rates.

Benefits of A&D Repair Center:

- Services are performed by factory-trained technicians
- · Fast turnaround times, expediated repairs available on most models with an additional fee
- · Original Spare parts
- · Reasonable Flat-Rates
- · Equipment is cleaned and aligned to manufacturer's specifications
- · 180 days warranty on all repairs and services performed
- · Services are performed in an ISO-1700 accredited facility
- Upgrade\trade-in your old equipment

Extended Warranties

A&D Engineering, Inc. ("A&D") warrants each product to be free from defects in materials and workmanship, and to conform to its published product specifications under normal use and service for the period listed above commencing from the date of purchase.

The foregoing warranty is extended only to the first purchaser and applies only to product failures due to defective materials and/or workmanship. Without limiting the generality of the foregoing, the foregoing warranty will not apply if, upon inspection, it is found that the product was: misused or abused; used for a purpose for which it was not designed; mishandled; placed in an improper environment; repaired by unauthorized personnel; or improperly installed or adjusted.

The sole and exclusive remedy in the event of any breach of the foregoing warranty shall be for the original purchaser to return the product to A&D, freight and insurance prepaid, for repair, replacement or credit, at A&D's option. Any product repaired or replaced under the foregoing warranty shall be shipped back to customer freight prepaid.

Except as provided above, A&D makes no warranty concerning the products, expressed or implied, including but not limited to the implied warranties or merchantability and fitness for a particular purpose. All such warranties are expressly disclaimed. In no event will A&D's liability under the foregoing warranty exceed the purchase price paid for the product giving rise to the liability.

IN NO EVENT SHALL A&D BE LIABLE FOR ANY LOSS, INCONVENIENCE, OR DAMAGE, INCLUDING WITHOUT LIMITATION DIRECT, OR INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, RESULTING FROM OR RELATED TO THE USE OR INABILITY TO USE A PRODUCT, WHETHER RESULTING FROM BREACH OF WARRANTY OR ANY OTHER LEGAL THEORY, EVEN IF A&D HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH INCONVENIENCE, DAMAGE OR LOSS.

Terms and Conditions:

- All prices are FOB; San Jose, California or Duluth, Georgia.
- Returns will not be accepted unless a Return Goods Authorization Number (RMA) has been issued from a Customer Satisfaction Representative 800-726-3364.
- A 20% restocking charge will be applied to all returned goods.
- Suggested list prices, terms and specifications are subject to change without notice.

Depot Repair Rates

A&D is continuously developing service programs that offer fast and cost-effective method of repair for you and your customers. Most repairs received by A&D are now done under our Flat Rate Repair Policy. If you can't find your product on our flat rate repair list, please request an estimate. Flat Rate Repair is offered at the prices shown.

We offer:

- Reasonable Repair Rates
- Estimates for your customers
- 180 Days Warranty

It's as easy as 1, 2, 3:

- 1. Call your Service Technician for an RMA number.
- 2. Issue a purchase order and send us the product.
- 3. Specify return method.

Terms & Conditions:

- · Prices are subject to change without notice.
- · Replacements for missing parts, components and accessories are not included in the prices.
- In the event we are able to repair an instrument in 30 minutes or less with minor parts, a reduced flat rate of \$225.00 will be charged. However, before you send an instrument in for repair you must get approval from your customer for the regular Flat Rate. Reduced Flat Rate applies to A&D Weighing products only.
- This Flat Rate repair policy applies only to instruments we feel are in repairable condition.
- · Warranty for repairs is 6 months.

| Price |
|------------|
| \$975.00 |
| \$900.00 |
| \$275.00 |
| \$375.00 |
| \$1,450.00 |
| \$260.00 |
| \$375.00 |
| \$575.00 |
| \$350.00 |
| \$275.00 |
| \$550.00 |
| \$450.00 |
| \$475.00 |
| \$575.00 |
| \$625.00 |
| \$625.00 |
| \$750.00 |
| \$875.00 |
| \$950.00 |
| \$775.00 |
| \$675.00 |
| \$675.00 |
| \$775.00 |
| \$285.00 |
| |

| Model | Price |
|----------------------|----------|
| FLR-HD | \$425.00 |
| FLR-HL-WP | \$175.00 |
| FLR-HR | \$750.00 |
| FLR-HR-A | \$625.00 |
| FLR-HR-AZ | \$675.00 |
| FLR-HV\W-KC | \$500.00 |
| FLR-HV\W-KCP | \$550.00 |
| FLR-HV-KGL HEAD | \$250.00 |
| FLR-HV-KGV HEAD | \$275.00 |
| FLR-HV-WP | \$525.00 |
| FLR-HVWP-HEAD | \$325.00 |
| FLR-HW-WP | \$550.00 |
| FLR-MC | \$990.00 |
| FLR-ML/MF | \$675.00 |
| FLR-MS/MX | \$775.00 |
| FLR-OUTPUT OPTION | \$175.00 |
| FLR-RFR | \$225.00 |
| FLR-SC | \$550.00 |
| FLR-SE | \$500.00 |
| FLR-SKWP | \$225.00 |
| FLR-SV-VISCOMETER | \$975.00 |
| FLR-SW | \$750.00 |
| FLR-TM-2430 \$475.00 | |
| FLR-TM-2655 | \$635.00 |

Key feature index



Accumulation (M+) Function

Sums the weighing results and displays the total value



Animal Weighing (Hold) Function

Helps measure and record the weight of a moving object such as an animal by averaging fluctuation



Auto Power OFF Function

Turns off the display automatically after a period of inactivity to save power



Auto Power ON Function

Activates the weighing mode display automatically when plugged in



Buzzer

Audible sound indicator



Clock and Calendar Function

Adds time and date information to output data



Comparator Function

Compares weight values within set limits and makes pass/fail judgments



Counting Function

Displays the number of pieces based on their individual unit weight



Counting Function with Automatic

Displays the number of pieces based on their individual unit weight while automatically optimizing the accuracy of the unit weight



Data Memory Function

Stores weighing data, calibration results, unit masses, upper/lower limits, preset tares, etc., for easy recall or output



Disabling Keys

Disable keys from being activated or switched



Electronically Controlled Load

A self-diagnostic before performing an internal repeatability test without an external weight, all in less than a minute and a half.



Calibration with External Weight Requires an external weight for calibration



Calibration with Internal Weight

Enables you to ensure balance accuracy with just one key press



Flow Rate Display

Calculates, displays, outputs and compares mass or volume flow rate values



GLP/GMP/GCP/ISO Compliant Output

Outputs the manufacturer, model, serial number, ID number, space for signature, calibration records, etc., for documentation requirements



Impact Shock Detection

A visual & auditory alert that educated, prevents, and document damage to sensor due sharp impact



Intrinsic Safety

Protection from potentially explosive atmospheres



IP65 Dust and Waterproof

Permits no infiltration of dust and withstands water jetting from any direction



IP67 Dust and Waterproof

Permits no infiltration of dust while immersed in water up to 1 m of submersion non continuous.



IP68 Dust and Waterproof

Permits no infiltration of water while immersed to a depth of 1 meter for 24 hours



IP69K Dust and Waterproof

Withstands heavy-duty washdown with high-pressure (8,000 to 10,000 kPa) and high-temperature (80 \pm 5 $^{\circ}$ C) water from up close (100 to 150 mm)



LAN-Ethernet Interface

(with WinCT-Plus software) Enables acquiring data from and sending commands to multiple weighing instruments



Liquid Crystal Display with Backlight Ensures visibility in a dimly-lit area



Liquid Crystal Display

Provides a sharp-cut, energy-saving display



LED Display

Provides a wide viewing angle and colorful display, allowing quick, intuitive judgments



Legal for Trade

Certified Legal For Trade Scales For Selling Goods By Weight specific



Normal Battery Operation

Works with off-the-shelf battery cells



NSF Compliant

Meets food protection and sanitation requirements as established by NSF International



Percentage Function

Displays the weight value as a percentage of a stored reference mass



Rechargeable Battery Operation

Works with a built-in rechargeable battery



Reverse-backlit Liquid Crystal Display

Provides a bright, high contrast that is extremely easy to read and less stressful on the eyes



RS-232C Serial Interface

Outputs data to and receives commands from a PC, printer, data logger, etc.



Smart Range Function

Automatically switches between the precision and standard ranges, and recovers the full precision range with a press of the RE-ZERO (tare) key



Software

Data management software available



Statistical Calculation Function

Displays and outputs statistical calculation data including number of data, sum, max, min, range (max – min), mean, standard deviation and coefficient of variation



Super Hybrid Sensor /

Compact Super Hybrid Sensor Simultaneously achieves precision, speed and stability, as well as ease of maintenance



Universal Flexi Coms Function

Enables editing of serial data output format or printout format



Underhook

Enables magnetic, hot, or contaminated materials to be hanged for weighing or for density measurements



USB Interface

Enable the balance to communicate with peripheral device (bi-directional) via USB



Quick USB Interface

Transfers weighing data to a PC USB port (one way) requiring no special software installation



User Access Control

Secure feature that allow users to have assigned user privilege managed and authorized by administrator



USB Host Interface

Stores the weighing value in the USB



Vacuum Fluorescent Display

Provides clear and wide-angle visibility even in a dimly-lit area



INSPECTION MADE SIMPLE

This complete line of product inspection equipment is designed to save you time and reduce production error while managing the risk of costly chargebacks, fees, lawsuits and expensive recalls.



If product giveaway and fill is your concern, this is your solution. Our line of checkweighers are modular, easy to incorporate into your existing line, have the ability to process up to 400 pieces per minute! Pair with a rejector to automate the rejection process.

In facilities with metal machinery and risk of metal contamination, our metal detectors can detect ferrous, non-ferrous and stainless steel pieces as small as 0.2 millimeters, that's smaller than a grain of sand! With a stainless steel body, they are wash down rated for easy cleaning and maintenance.



Metal Detector



Implement this smart inspection system. The ProteX X-ray series can be programmed to work specifically for your products to identify contaminants like bone, plastic, metal and glass. Advanced features like masking, missing component detection and misshaped product detection also come standard



Test and Measurement



DAQ solutions from bench to factory floor to field

Data Acquisition

Measurement by anyone anywhere

Record, analyze and print right on-site with the A&D family of Data Acquisition Systems.

Features:

- 4, 8, 16 and 32 channel models
- 12.1" touch-screen display
- · Built-in printer
- 11 plug-in modules for a wide array of transducers and signals

Applications:

- FFT analysis (on-board)
- Data logging
- · Temperature tests
- · Voltage, current measurements
- · Strain gauge tests
- · Vibration characterization
- PCB strain analysis
- · Vehicle tests
- Electrical relay tests



Precisely test materials with the AD-3253B

Non-Destructive Test

Ultrasonic thickness testers

Its light weight (180g) offers hours of fatigue-free operation.

Features:

- Automatically displays the correct thickness. No special qualifications or training are required.
- Easy to read. Displays both measured thickness and sonic velocity of the sample.
- · Select inch or mm units-of-measurement.

Applications:

- · Thickness Measurement
- · Corrosion Test
- Inspection

Samples:

Steel Titanium, Aluminium, Copper, Brass, Glass, Ceramic, Plastic, etc



Gain insights into your materials and products with table-top and floor models

Material and Product Test

Strength you can see!

The MCT series of table-top universal testing machines are great alternatives to force and push pull gauges.

Features:

- · Compact space-saving design
- Color touch panel
- · High precision load cell included
- · Data capture software included

Applications:

- · Tensile / compression tests
- · Bending strength
- · Required button-push force
- · Plastic bottle buckling test
- Tablet (pill) crush / crack force
- Animal feed / pellet strength
- · Food container peel / puncture
- · Saline bag puncture force
- · Syringe resistance

For more information contact us at: datarecorder@andonline.com or visit andmeasurement.com

