QSG 750-II

Optics

spectrometer in Paschen-Runge mounting
Rowland circle diameter 750 mm
wavelength range 110-770 nm
optics and read-out electronics temperature stabilised to ± 0.1°C for excellent long-term stability
automatic computer controlled profiling
coma corrected slits
PMT types selected according to the respective wavelength
shock resistance

Vacuum System

evacuated light metal chamber
maintenance free 2-stage rotary vane pump
vacuum pump integrated in cabinet
pump duty cycle <5%
oil diffusion protection
automatic pressure regulation and stabilisation

Spark Generator

Gated Digital Source (GDS) with integrated multi-spark system
maintenance free
spark frequency up to 1 kHz
unipolar medium voltage discharge
separate parameter for pre-sparking and integration selectable
variable excitation parameters & discharge characteristics selectable by software
Ignition voltage 20kV

Spark Stand

argon purged spark stand, optimised for low Ar consumption
patented self-cleaning
open sample stand for easy handling
low-wear top plate with 12 mm opening
optionally adapters for small parts and wires are available
low-wear tungsten electrode
pneumatic sample clamp for rapid sample handling
automatic electrode cleaning as option
about 3 l argon consumption per measurement
easy maintenance

Electronics

stabilised PMT high voltage supply
23 bit AD conversion for each channel
GISS technology (Gated Integration of Single Sparks)
DSP processor controlled
USB interface to spectrometer PC