

Technical Specifications IRGprobe

Sensitivity	0.02 pulses h ⁻¹ Bq ⁻¹ m ³
Lower detection limit	100 Bq m ⁻³
Upper detection limit	50·10 ⁶ Bq m ⁻³
Volume of chamber	0.25 liters
Size of probe	75 mm diameter, 250 mm height
Size of supply case	250 mm x 210 mm x 220 mm (LxWxH)
Weight of system	10 kg (without steel tubes)
Filter	5 mm sinter metal
Detector	Silicon alpha-detector, 300 mm ³
Flow meter	Operating range 20 l h ⁻¹ to 250 l h ⁻¹
Pump	Vibrating membrane type, 30 l h ⁻¹ to 200 l h ⁻¹
Micro computer	HD64180 CPU, 4.6 MHz, 32 kBytes RAM, 32 kBytes ROM
Software in ROM	Alpha-spectrometry, measurement control, data evaluation
Analyzer	256 channels, double buffered, conversion time 0.1 to 1 ms
Printer	Thermal printer, 40 columns, 0.8 lines sec ⁻¹
Keyboard	10 number keys, 10 command keys
Storage capacity	> 750 spectra and results
Battery backup	No data loss after power off, clock continues operation
Power system	110/230 VAC, 50/60 Hz, 25 VA
Power probe	5 VDC, 200 mA
Communication	RS-232 serial data I/O asynchronous, 4800 Baud, RTS/CTS