The FH40G Family of advanced digital survey meters is designed for multiple radiation protection measurements. This integrated design represents a versatile, user-friendly radiation measurement system that can be operated stand-alone or networked.

FH40GL Digital Survey Meter



- Versatile multipurpose meter
- Backlit LCD digital readout & 3 decade logarithmic analog bargraph
- Setup and Calibration via Windows PC programs
- Data Logging up to 256 data records
- Simultaneously
 operates internal and external
 detectors
- Audible & visual dose and dose rate alarms

The Model FH40GL is a stand-alone unit with an internal proportional detector and can simultaneously function with an external detector.

The Model FH40GX only operates with an external detector. The external probes utilized with either model of FH 40G are "smart" with the calibration parameters automatically adjusting with a change of probes.

Measured values are shown via a clear, backlit LCD display. Measurements are digital with a 3 decade logarithmic analog bargraph.

An intelligent rate meter algorithm (ADF mode) detect and indicates small changes in dose rate, suppressing random noise. Additional information includes alarm settings(s), audio speaker, battery voltage, external probe parameters, date and time and many user-selectable functions.

The FH40G is rugged, lightweight, fits snugly in the palm if the hand and is easy to operate with large keys that enable users wearing gloves. Internal diagnostics ensure proper functioning of the detector(s) and the electronics. If the battery voltage falls below a pre-defined value, the corresponding icon on the display flashes



giving the user 20 hours of remaining time before replacing the batteries.

Alarm values are established for dose rate and integrated dose. When an alarm value is exceeded, a permanent signal is emitted. In parallel to the measured value display, an audible speaker can be activated to signal detector pulses.



The memory of the FH40G models are designed to record up to 256 data points containing measurement number, date, time and dose rate at the internal detector and external detector, status, and barcode information.

The stored values can be read directly from the LCD, accessed at any time and can also be processed and transferred for archiving to a PC via the FH40G serial interface.

FH40GL Specifications

Dose rate equivalent l Exposure rate: Air Kerma rate: Energy Range: Polar Response:	Hx:10 nSv/h to 100 mSv/h 1 μR/h to 10R/h 10nGy/h to 100 mGy/h 36 keV - 1.3 MeV -90 to +90 (+/-20% for energy greater than 65 keV)	FHZ512A: FHZ752S:	(65 ft.) watertight cable, 10 mR/h to 10,000 R/h 38.1 x 38.1 mm (1.5 x 1.5 in.)Nal probe BF ³ Neutron probe, provides simultaneous gamma and neutron measurements when used with the FH40GL
General		FHZ752SH:	He ³ Neutron probe, provides simultaneous gamma and neutron
Overrange: Alarm Thresholds:	at 100 Sv/h no display decrease dose rate 0 to 9.9 R/h (0 to 99 mSv/h) dose 0 to 1000 R (0 to 10 Sv)	FHZ632L:	measurements when used with the FH 40GL Proportional probe, 100 μR/h -10 R/h Highly sensitive Organic Scintillator and Proportional tube in one portable unit for NBR
Audible: Interface: Interference:	80 db at 30 cm RS-232, infrared Electromagnetic/RF shielded case	FHZ672E-10:	
Batteries:	EN50 081-1, EN50 082-2 2 standard "AA", 250 hours with	FHZ732GM:	applications GM Pancake, 44.45 mm Dia 1700 cpm/mR/h sensitivity
Operating Temperatur Storage Temperature:	Alkaline, 500 hours with Lithium e: -30°C to 55 °C (-22 °F to 131 °F) -40°C to 70°C (-40°F to 158 °F)	NBR:	Natural Background Reduction FH-40G with FHZ-672E probe
Size: Weight:	195 x 73 x 42 mm (7.7 x 2.9 x 1.7 in) 453 g. (1 lb) FH40GL, with batteries	Instrument Option	15
Instrument Configuration Options		FH40GOPT1: FH40GOPT2:	PC IR Interface cable Windows PC Software
FH40GL: FH40GX:	Includes internal proportional detector Without internal detector.	FH40G0PT3: FH40G0PT4:	Windows PC Calibration Software Coiled Cable, 1.2 m, FH40G to external Teleprobe
Optional External Probes			
Teleprobe:	A lightweight telescoping probe for gamma. Extends to 4 m. (13 ft) 10 μR/h -1000 R/h (100 nSv - 10 Sv/h)		
UWDS:	FHZ312 Energy compensated GM		

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