



Thermo Scientific™

FH 40 G Multi-Purpose Digital Survey Meter

Catalog number: 4254002

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Serve multiple radiation detection applications with one versatile instrument. The Thermo Scientific™ FH 40 G is a wide range digital Geiger counter suitable for nearly all measurement tasks arising in radiation protection through optional plug and play probes available for neutron measurement, alpha and beta contamination readings and even to detect artificial gamma radiation in variable natural radiation fields.

[Product Overview](#) [Documents](#)

	Catalog Number	Specifications	Unit Size	Description	Price (EUR)
✓	4254002	Full specifications	Each	Without extra earphone connection, measuring range 1 µR/h-100 R/h	Request A Quote
✓	425400201	Full specifications	Each	Measuring range: 0.1 pSv/h-0.99 Sv/h, 36 keV to 1.3 MeV	Request A Quote
✓	4254004	Full specifications	Each	Without earphone connector, measuring range up to 10 R/h	Request A Quote
✓	425400401	Full specifications	Each	Without extra earphone connection, measuring range up to 0.1 Sv/h	Request A Quote
✓	425400450	Full specifications	Each	Measuring range: up to 10 R/h, calibrated in R/h; extra earphone connector	Request A Quote
✓	4254006	Full specifications	Each	Without extra earphone connector	Request A Quote
✓	425400650	Full specifications	Each	Measuring range: up to 1 Sv/h; 30 keV to 4.4 MeV	Request A Quote
✓	4254008	Full specifications	Each	Export version with selectable calibration factor	Request A Quote
✓	425400802	Full specifications	Each	No nanosievert units	Request A Quote
✓	425400850	Full specifications	Each	With extra earphone connector	Request A Quote

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The FH 40 G is a versatile multipurpose Geiger counter and area monitor that can be used with external detectors for portable and remote area monitoring applications.

- Rugged, waterproof and reliable with very simple operation.
- Gamma meter with internal proportional counter tube.
- Integrated gamma dose rate measurements.
- Interface for one optional, external plug and play probe.
- Alarm thresholds for the internal detector and external probes of the FH 40 G are monitored simultaneously.
- Upon connection of an external plug and play probe, the probe parameters are automatically read into the FH 40 G and the correct parameters are set.
- High voltage generation inside the plug and play probe makes the system calibration independent of cable length.
- Separate alarms can be set by the user for both the internal and external detectors.
- Operational internal proportional detector and connected external detector.
- Serial infrared interface.
- Type tested by PTB (German version).
- Type tested for use by German fire brigades.
- Simultaneous operation of internal and external detectors, both dose rate and remote dose rate readings.
- Configuration and data read out via PC.
- Waterproof (IP 67) and shock resistant.
- ADF mode (Advanced Digital Filter).
- Clear, backlit LCD display.
- Datalogging capability.
- Internal diagnostics ensure proper functioning of the detector(s) and the electronics.
- 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 optional barcode information.
- Wide range of plug and play external probes for monitoring and detection.
- All FH 40 G versions and external probes containing the "-10" suffix are designed to meet the energy response behavior of the new SI-units ambient dose equivalent and ambient dose equivalent rate according to ICRU 39.

Short summary of available plug and play probes:

- Gamma dose rate measurement: FHT 192 (ionization chamber), FHZ 632 (proportional counter), FHZ 612 (wide range), FHZ 302/312 (under water nuclear power).
- Gamma search probes: FHZ 502, 503, 512 (NaJ/BGO).
- Contamination: FHZ 742 (Scintillator), FHZ 732 (Pancake/proportional counter), FHZ 382 (Scintillator + Alpha/Beta discriminator via LED indication if alphas are present).
- Artificial radiation discrimination: NBR probe FHZ 672.
- Preamplifiers for various classic probes.
- Wide range of accessories like cables, telepoles, application specific kits, etc.

FH G and FH 40 G-L series meters (4254002, 425400201, 425400250, 425400251, 4254004, 425400401, 425400450, 425400451) are not for sale in the UK

The FH 40 G instrument is available in different versions:

FH 40 G

Measured Quantity: Roentgen (R)
Measuring Range: 1 µR/h ... 100 R/h
Energy range: 36 keV ... 1.3 MeV
Dose measuring range: 10 µR - 1000 R

FH 40 G-L

Measured Quantity: Roentgen (R)
Measuring Range: 1 µR/h ... 10 R/h
Energy range: 36 keV ... 1.3 MeV
Dose measuring range: 10 µR - 100 R

FH 40 G-10

Measured Quantity: Sievert (Sv; Ambient dose equivalent rate H*(10))
Measuring Range: 10 nSv/h ... 1 Sv/h
Energy range: 30 keV ... 4.4 MeV
Dose measuring range: 100 nSv ... 10 Sv

FH 40 G-L10

Measured Quantity: Sievert (Sv; Ambient dose equivalent rate H*(10))
Measuring Range: 10 nSv/h ... 100 mSv/h
Energy range: 30 keV ... 4.4 MeV
Dose measuring range: 100 nSv ... 1 Sv

FH 40 G-X

No internal detector, operation of external plug and play probe only

General specifications of all FH40G units

Dimensions 7.7 x 2.9 x 1.7 in. (195 x 73 x 42mm)
Weight[s] 0.9 lb. (410g)
Battery type: 2 x AA
Neutron dose rate measurement: FHT 762 WENDI-2, FHT 772 H-2 REMBALL
Neutron search probes: FHT 752 SH-2 (He-3, 2bar)

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