

The Thermo Scientific FH40 based K-O kit offers the complete suite of radiation detectors to monitor and identify any type of radiation or radioactive material in preventative scenarios as well as emergency situations.

## Thermo Scientific FH40 K-O Kit

### Emergency Radiation Detection Kits



#### Features

- Rugged construction
- Easy to use
- Complete radiation response solution
- Monitors Alpha, Beta, Gamma and Neutron radiation
- Identifies and classifies radioactive isotopes
- System utilizes plug-and-play smart probes for doserate and contamination surveys
- Networkable via wireless module

The high performance FH40GL multi-purpose survey/ratemeter is the heart of the system. It has an internal proportional detector to measure doserate in a stand-alone mode, or it can be connected with the included range of smart plug-and-play external detectors. The FH40GL can simultaneously work with any of these detectors and continue monitoring the area gamma doserate. The external detectors in the K-O kit are for monitoring Neutrons, Alpha and Beta contamination and Gamma radiation. For the most challenging search-and-find tasks without excessive false alarms, a high

sensitivity large volume NBR detector is also included, along with an extending teleprobe for sensitive or high level measurements at a distance. To identify the isotope and assist in defining form of response required to a radiation event, a Thermo Scientific IdentifINDER Handheld Radioactive Isotope Identifier (RIID) is included. This can be ordered with a LaBr detector for improved resolution and Identification capabilities.

This complete kit comes inside durable weatherproof cases with all the required chargers, cables and software.

## Specifications

The Thermo Scientific FH40 K-O Kit includes the same items without the IdF-NHG+ or IdF LaBr, for those organizations who do not need, or already have Radioisotope Identifiers.

Other probe options are available and specific probes can be added or removed as required; however, the specified probes have been selected to give the emergency responder the best performance for the likely range of radiation emergency scenarios.

The Teleprobe (telescoping adapter) can be used with many of the included probes. The adapter extends to 13 feet, enabling the user of the probe to get close to any difficult-to-reach area, such as under a vehicle, to perform the most sensitive search and survey possible. It can also be used in a high dose rate area to measure the radiation source closely, while keeping the operator at a safe distance. The FH40GL will display to the operator both the higher probe dose rate at the end of the pole close to the source and the lower safer dose rate where the user stands. Live data can be exported from the FH40 via an optional wireless module.

This may be networked using the Thermo Scientific Viewpoint System or the LifeLine System from Safe Environment Engineering.

### Thermo Scientific Teleprobe FH40 TG



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### The Thermo Scientific FH40 K-O Kit includes the following items

2 x 4254004 - FH40GL	Multi-Purpose stand-alone Surveymeter and Ratemeter used with plug-and-play probes. Doserate range of internal detector 1 $\mu$ R/h – 100 R/h. Energy range 36 KeV-1.3 MeV. All readouts on the FH40 automatically set to the units and range defined by the attached probe and all calibration parameters are set automatically
4254036 - FHZ732GM	Alpha/Beta 15 cm <sup>2</sup> Pancake Geiger Probe for detecting radioactive contamination. Includes sturdy protective nylon bag
FHZ380AB	Alpha/Beta 100 cm <sup>2</sup> Scintillation Probe for particulate contamination
4254066	FHZ672E-10 High sensitivity NBR (Natural Background Rejection) search probe. For sensitive detection of artificial sources in fluctuating natural radiation fields. Simple red-green alarm system assists with effective search procedures. Energy range 48 keV to 1.3 MeV to H*10
425405101	Teleprobe (telescoping adapter) for FH40 plug-and-play probes
4254049 - FHZ752SH	High Sensitivity Neutron Detection Probe, fits in Teleprobe
4254028 - FHZ512A	High sensitivity 1.5 in x 1.5 in NaI Gamma probe, fits in Teleprobe
4254052 - FHZ612	Wide range Teleprobe dose rate detector, 2 GM's with automatic range switching. Measures dose rates up to 1000 R/h. energy range 82 KeV to 1.3 MeV
425405120	Rugged case for teleprobe and plug-and-play probes
425405114	Protective cap for probes fitted to telescoping adapter
IDF-NHG+	IdentiFINDER Handheld Isotope Identifier MCA with He3 Neutron Detector. 1.4 in x 2.0 in NaI detector, high range GM, holster, battery charger, data interface cables, data transfer software, and winTMCA analysis software. Optional IdentiFinder LaBr model available on request
CCPL17	Wheeled Weatherproof #1750 Pelican Case, contains complete kit apart from Teleprobe
ZP11601139	Custom Foam insert to protect all kit items in Pelican case
2 x 4254000045	Spiral Cable for plug-and-play probes
4254029	FH40 Data Interface cable to PC
A425409901	FH40G Configuration and data software
A425409903	FH40G Calibration Software
FH40GOPT8	FH40 and probe heavy-duty canvas carry case

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