

FH 40 D

Void Space Analyzer (Contraband Detection)

Nuclear Material Detector

Advanced Survey Meter



High Sensitivity, Fast Response

One- or Two-Hand Operation

Low power Technology

Easy to Use, Trend Indicator

Internal Data Memory

Serial Interface

The FHT 40 D System is the result of the requirements of customs officials. The light weight, rugged and easy to use instrument that can be applied to the following tasks:

Quick Analysis of Void Spaces

Detection of hidden material such as drugs, alcohol or cigarettes using the gamma backscattering effect.

Detection of Radioactive Material

Gamma emitting sources are detected by the sensitive and rugged scintillation probe.

Simultaneous precise Measurement of Gamma Dose and Dose Rate



Head of FHT 40 D - Probe

The holder with the collimator of the Ba-133 source is mounted on the top of the Gamma Probe FHZ 512.

The collimator can be tilted from 0° to 90° for measurement. The closed position is 180°.

Specification

FH 40 D

The FHT 40 D System consists of the following components:

Quick Analysis of Cavities:

FH 40 G-L Survey Meter
FHZ 512 Scintillation Detector
Coiled Cable
Check Source and tiltable holding device
300 kBq Ba-133 source enclosed in 10 mm lead collimator (approximately 300 g). The collimator is mounted on top of the FHZ 512 and can be tilted from 0° to 90° for measurements around corners. 180° position in closed (storage position).
Total weight: 1.3 kg (3 lbs)

Detection of radioactive material:

FH 40 G-L Advanced Survey Meter
FHZ 512 Scintillation Detector
1" x 1"-NaI(Tl) Detector in a shock and water resistant housing, powered by FH 40 G-L
efficiency for Cs-137: 300 s ⁻¹ /mSv/h
measuring range: up to 100.000 s ⁻¹
energy range: from 30 keV
weight: app. 500 g
length: app. 300 mm
diameter: 40 mm
Coiled Cable
length: 0.5 ... 1.5 m
Total weight: 1 kg (2 lbs)

Dose and dose rate measurement:

FH 40 G-L Advanced Survey Meter
detection range: 10 nSv/h ... 100 mSv/h
energy range: 36 keV ... 1.3 MeV
PTB approval: yes
Internal data recording: yes
Serial interface: yes
Low power technology: 2 standard AA-cells
Total weight: 410 g (1 lb)

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