



RADIATION

Fluke 481 Radiation Detection Meter



Fluke 481-DESI



The Fluke 481 Radiation Detection Meter is a portable and practical means for discovering irradiated goods, and for helping remediate contaminant and safety issues while minimally affecting performances. Ideal for detecting irradiated goods, equipment, surfaces or environments in industrial settings, the 481 Radiation Meter helps ascertain worker safety and compliance to national regulations.

- Detects skin-dose (beta particle) and deep-dose (gamma) and X-ray radioactivity
- Requires no adjustments; simple two button process
- Provides promptly read, correct value through autoranging capability
- Easily visible inside truck trailers and other low-light situations with automated backlight
- Works dependably inside or outside thanks to sealed case
- 30 % more precise than other available meters
- Delivers more than one week of uninterrupted functioning with two 9-volt alkaline batteries
- Proven in use by state and local governmental emergency response professionals, state inspectors, HAZMAT teams and nuclear power workers
- Measures both dose and dose-rate
- Valuable for contamination-detection, general radiation area metering, radiation-level monitoring, and hazardous materials assessment
- Rugged Fluke design

Recommended Accessories



190HPS
Single Unit
Carrying Case

Fluke 481 Applications



Specifications

Radiation detected	Beta > 100 keV, Gamma > 7 keV
Operating ranges	0 μ Sv/h to 50 μ Sv/h (8 sec), 0 μ Sv/h to 500 μ Sv/h (2,5 sec) 0 mSv/h to 5 mSv/h (2 sec), 0 mSv/h to 50 mSv/h (2 sec) 0 mSv/h to 500 mSv/h (2 sec)
Accuracy	Within 10 % of readings between 10 % and 100 % of full scale indication on any range, exclusive of energy response
Detector	Chamber (cc volume air ionisation) 349 cc, Chamber wall (phenolic) 246 mg/cm ² , Chamber window (mylar) 6.6 mg/cm ² , Beta slide 440 mg/cm ²
Automatic features	Auto-zeroing, auto-ranging, and auto-backlight
Power requirements	Two 9 V alkaline, 200 hours operation
Warm-up time	One minute
Battery life	4+ hours continuous use per battery pack, (assumes 50 % brightness of LCD)
Dimensions (W x D x H)	10 cm x 20 cm x 15 cm
Weight	1.11 kg
Display LCD analogue/digital with backlight	
Analogue	100 element bar graph 6.4 cm long. Bar graph is divided into 5 major segments, each labeled with the appropriate value for the range of the instrument
Digital	2.5 digit display is followed by a significant zero digit depending on the operating range of the instrument. The units of measurement are indicated on the display at all times. Digits are 6.4 mm high. Low battery and freeze indicators are also provided on the display
Modes	
Integrate mode	Operates continuously 30 seconds after the instrument has been turned on. Integration is performed even if the instrument is displaying in mR/h or R/h
Freeze mode	Will place a tick mark on the bar graph display to hold on the peak displayed value. The unit will continue to read and display current radiation values
Environmental	
Temperature range	-20 °C to 50 °C
Relative humidity	0 % to 100 % (at 50 °C)
Geotropism	< 1 %

Ordering Information

FLK-481-DESI DESI Radiation
Detection Survey
Meter

Contact your local distributor for
price and availability.
www.fluke.com/sg/wtb