

Fluke 481

Radiation Survey Meter

Technical Data



The Fluke 481 Radiation Survey Meter is a portable and practical means for identifying irradiated goods, and for helping remediate contamination and safety issues while minimally impacting operations.

Use of the device reassures employees that radiation risks are known, monitored and measured for their protection. If radiation is found, a clear and quantifiable result allows managers to comply with federal guidelines, without overreacting with unnecessary steps that might halt operations, impact productivity or lead to lost revenue.

Features Include:

- Detects skin-dose (beta particle) and deep-dose (gamma) and X-ray radiation
- Requires no adjustments; simple two button operation
- Delivers quickly read, correct value through autoranging capability
- Easily visible inside truck trailers and other low-light conditions with automated backlight
- Works reliably indoors or outdoors thanks to sealed case
- 30% more accurate than other available meters
- Delivers more than one week of continuous operation from 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
- Useful for contamination-detection, general radiation area surveys, radiation-level monitoring, and hazardous materials assessment
- Ruggedized Fluke design



Fluke 481 Radiation Survey Meter

Detector	Ion chamber
End users	<ul style="list-style-type: none"> • X-ray manufacturers • State inspectors • Government agencies • Police and fire departments • Emergency response and hazmat teams • Nuclear medicine labs • Hospital radiation safety officers • Nuclear power workers
Radiation detected	beta, x-ray, gamma

Specifications

Radiation detected	Beta	> 100 keV
	Gamma	> 7 keV
Operating ranges, response time	0 mR/h to 5 mR/h (8 sec) 0 mR/h to 50 mR/h (2.5 sec) 0 mR/h to 500 mR/h (2 sec) 0 R/h to 5 R/h (2 sec) 0 R/h to 50 R/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 ionization)	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	
Display LCD analog/digital with backlight	Analog	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 (0.25 in) 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	-4 °F to 122 °F
	Relative humidity	0 % to 100 % (at 140 °F)
	Geotropism	< 1 %
Dimensions (W x D x H)	10 cm x 20 cm x 15 cm (4 in x 8 in x 6 in)	
Weight	1.11 kg (2.5 lb)	



Fluke. Keeping your world up and running.®

Fluke Corporation
PO Box 9090, Everett, WA 98206 U.S.A.

Fluke Europe B.V.
PO Box 1186, 5602 BD Eindhoven, The Netherlands

For more information call:
 In the U.S.A. (800) 443-5853 or Fax (425) 446-5116
 In Europe/M-East/Africa +31 (0) 40 2675 200 or Fax +31 (0) 40 2675 222
 In Canada (800)-36-FLUKE or Fax (905) 890-6866
 From other countries +1 (425) 446-5500 or Fax +1 (425) 446-5116
 Web access: <http://www.fluke.com>

©2011 Fluke Corporation.
 Specifications subject to change without notice.
 Printed in U.S.A. 4/2011 4022637A D-EN

Modification of this document is not permitted without written permission from Fluke Corporation.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Fluke manufacturer:](#)

Other Similar products are found below :

[FLUKE-805](#) [FLUKE-787B](#) [FLK-3000 FC IND](#) [FLUKE-1630-2FC](#) [FLUKE-63](#) [FLUKE-87-V](#) [BC7217 120](#) [T5-1000 USA](#) [FLUKE-376 FC](#)
[700P02](#) [FLUKE 289/FVF/IR3000](#) [FLUKE-355](#) [FLUKE-424D](#) [FLUKE-773](#) [FLUKE 80PK-11](#) [FLUKE 80PK-26](#) [FLUKE AC220](#) [FLUKE](#)
[C1600](#) [FLUKE C280](#) [FLUKE I200](#) [FLUKE I200S](#) [FLUKE I3000FLEX-24](#) [FLUKE I400](#) [FLUKE SCC120E](#) [FLUKE TP81](#) [FOC-ST/FC](#)
[DSP-SR](#) [C28Y](#) [RS41](#) [STL120-III](#) [1LAC-A](#) [FLUKE 1662](#) [FLUKE 52](#) [FLUKE 80K-15](#) [FLUKE 80K-6](#) [FLUKE 80PK-27](#) [FLUKE 8808/TL](#)
[FLUKE 88V/A](#) [FLUKE BB120](#) [FLUKE C101](#) [FLUKE T5-1000-KIT](#) [FLUKE TL950](#) [FLUKE TLK281](#) [FLUKE TP912](#) [2679822](#) [4328074](#)
[Y8102](#) [DSP-100](#) [I30S](#) [FLUKE 1587/I400 FC](#)