

APPLICATION

The Model 190I Survey Meter is an easy-to-use instrument designed to meet the high technology requirements of Health Physics, Medical Physics, and Non-Destructive

Testing applications.

FEATURES

- Rate/Integ: allows the user to select the mode of display
- Mode: rolls through and displays the available units for the selected mode of operation
- Light: activates a background light for a preset time period
- Log: enters and sequentially labels the displayed data into a data log
- Resp Time: rolls through and displays available response times (3, 6, 12, and 24 seconds) for user selection
- Audio: allows the user to turn on/off the audio indicator
- Visual indication of selected parameters, as well as measured values, are displayed on the analog/digital display
- The Model 190I is shipped calibrated and ready-to-use

Specifications are subject to change without notice.

190I-DS Rev. 1 23 NOV 00

Regulatory Compliance

Certified to meet European EMC directive 89/336/EEC and FCC Part 15 Class B

This includes EN55022 Class B, EN50082-1. Meets safety standards EN60950 and CSA 22.2 No. 950

SPECIFICATIONS

LCD Display Readout

Dimension

2.6 in (w) x 2.0 in (h) (6.6 x 5.1 cm)

Analog Scale (Bar Graph)

Fifty-one elements arranged in a radius arc. Each element represents 2% of full scale. Scale markings are 0, 2, 4, 6, 8, and 10. Scale length is 2.2 in (5.6 cm)

Scale Multiplier

0.0001 to 1 million (dependent on the activated units)

Alphanumeric Display

16 character display shows digitized average on the bar graph value

It displays operational units such as radiation unit changes, response time changes, data, and labels

Pushbutton Controls

Mode Toggles and selects rate units:

$\mu\text{R/hr}$	mR/hr
R/h	CPM
CPS	$\mu\text{Sv/h}$
mSv/h	

and the complementary units in the integrate mode:

μR	mR
R	CTS
μSv	mSv

with the integrated time value in seconds

Log Logs 211 data points and sequentially labels data points. (Data retrieval requires the Model 190-1A Infrared Communicator)

Rate/Integrate

Toggles between rate and integrate

Response Time

Toggles and selects: 24 seconds, 12 seconds, 6 seconds, or 3 seconds response time during operation

Audio Turns audio on and off. Acknowledges alarm

Light Turns back light "ON" for a preset time

NOTE: Using the Infrared Communicator, default settings can be programmed into the Model 190I. Features and push buttons can also be locked out to set up the Model 190I in a user-defined mode of operation

Range 10 $\mu\text{R/h}$ to 1000 mR/h; 0.1 $\mu\text{Sv/h}$ to 10 mSv/h

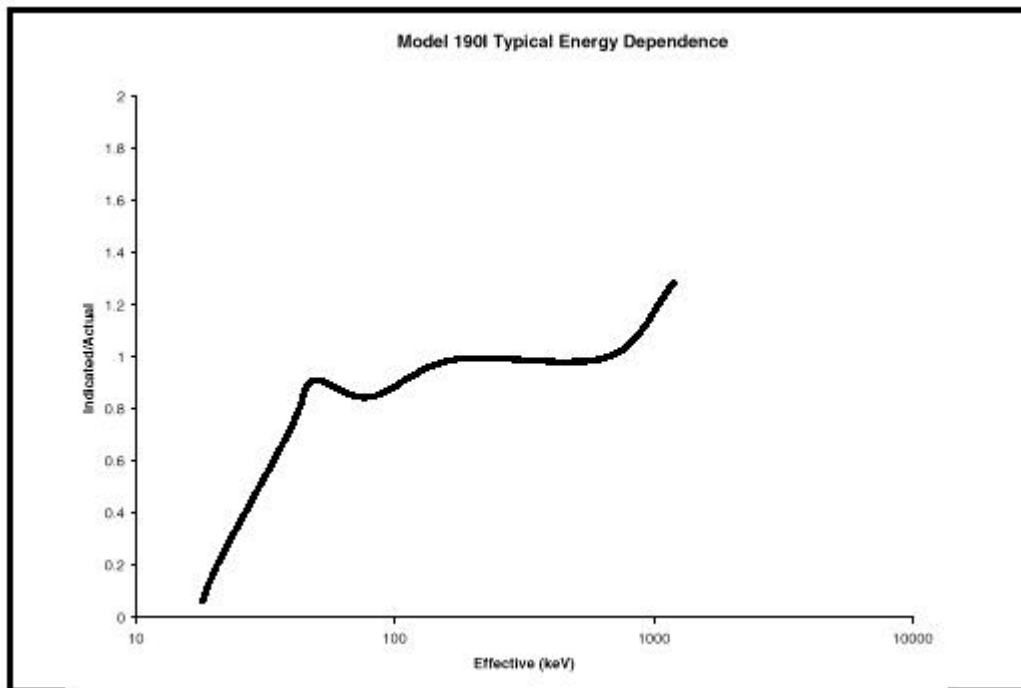
Detector Internal energy compensated GM detector

Accuracy Within 10% of reading between 10% and 100% of full scale indication on any range, exclusive of typical energy dependence

Nominal Sensitivity 475 CPM/mR/hr*

* Calibration to 137 Cs

Typical Energy Dependence



Temperature Range - 10 to 60°C (14 to 140°F)

Relative Humidity 0 - 95%, non-condensing

Construction Molded ABS plastic, splash-proof case

Dimensions

3.75 in (w) x 2.1 in (d) x 9.2 in (h)

(9.2 x 5.4 x 23.4 cm)

Weight 1 lb 9 oz (708.7 g)

Power Four 9-volt batteries, 200 hours operation

Warm Up Time

15 second diagnostic check

Options Model 190-1A Infrared Communicator,

additional features can be activated such as log mode, alarm setpoint, and energy specific calibrations

NOTE: The Model 190I is calibrated to NIST standards. The Model 190I is calibrated in mR/h or μ Sv/h as a standard. The end-user may calibrate in additional radiation units using the 190-1A Infrared Communicator

© Elimpex-Medizintechnik, Spechtgasse 32, A-2340 Moedling, Austria
 phone +43-2236-410450
 fax +43-2236-410459

