## Digital Area Monitor

Available in mR/hr or μSv/hr



## Features:

- Affordable Area Monitor
- 1µSv/h to 10 mS/h (0.1 mR/hr to 1 R/hr)
- Integrated Design
- Battery Backup
- Networkable
- Audio & Visual Alarms

Designed for visibility and ease of use. This monitor incorporates an internally housed energy compensated GM detector with a range from 1  $\mu$ Sv/h to 10 mSv/h (0.1 mR/hr to 1R/hr). It features a wall-mount chassis and a four-digit LED display that is readable from 9 meters (30 ft) away. Backlit indicators warn of low radiation (yellow), high radiation (red), instrument failure (red), and low battery (yellow), along with an alarm. A green status light is a positive indication of instrument operation.

Parameters are protected under a calibration cover. Calibration is easily accomplished by moving the cal dipswitch to the right, and using the pushbuttons to increment or decrement the calibration constant, dead time correction, and alarm point parameters. Parameters are stored in non-volatile memory (retained even with power disconnected). A five-decade logarithmic analog output is provided. A battery backup provides 48 hours of additional use after the primary power is removed.

Specifications:

Application: Gamma monitoring Detector: Energy compensated GM

Operating Range: 1 µSv/h to 10 mSv/h (0.1 mR/hr to 1 R/hr) 4-digit LED display with 2 cm character height Display:

Display Range: 000.0- 9999 (Series One: 00.00 to 9999)

Display Units: μR/hr, mR/hr, R/hr, μSv/h, mSv/h, Sv/h, μrem/hr,

mrem/hr, rem/hr, cpm, cps, and others

Reading within  $\pm 10\%$  of true value with Linearity:

detector connected

Response: Typically three seconds (10%-90% of final reading) Instrument Status: Green Light instrument functioning properly Yellow Light and Slow Beep (one per second) Low Alarm: audible tone (can be set at any point from 0.0- 9999)

High Alarm: Red Light and fast beep (4 per second) audible tone

(can be set at any point from 0.0-9999)

Low Battery: Yellow Light indicates less than two hours of

battery power remaining

Overload: Senses detector saturation

(indicated by display reading "- OL - ") Overrange: Indicates radiation field being measured has exceeded counting range of instrument

Calibration Controls: Accessible from front of instrument

(protective cover provided)

High Voltage: User-adjustable from 450- 2500 volts

Dead Time: User-adjustable to compensate for dead time of detector and electronics (can be read on display) Can vary from approximately 68 dB through Audio:

operation of the external rotary baffle and the

internal voltage connection

RS-232 Output: A 2-second dump for computer data logging

Optional relay output available for connecting remote Remote Display: displays

Ethernet:

Optional 10 Base-T connection for use with Ludlum Model 375 software

Temperature Range: -15 to 50° C (5-122° F) May be certified for operation

from -40 to 65° C (-40 to 150° F)

9 Vdc wall-mount adapter with four sets of prongs Power: for almost any style wall receptacle

48 hours in non-alarm condition (typical)

12 hours in alarm condition (typical) Battery Charger:

Battery is continuously trickle charged when

instrument is connected to line power and turned on

Aluminum housing with ivory powder coat finish Construction:

7.4" H x 9.7" W x 2.5" D Dimensions:

Weight: 4.7 lb

Battery Life:

051-275 Digital Area Monitor, 90-260 Vdc

Includes: Built-in GM Gamma Detector

Display is in mR/hr

Digital Area Monitor, 90-260 Vdc 051-273

Includes: Built-in GM Gamma Detector

Display is in uSv/hr