## Digital Area Monitor

Available in $\mathrm{mR} / \mathrm{hr}$ or $\mu \mathrm{Sv} / \mathrm{hr}$


## Features:

- Affordable Area Monitor
- $1 \mu \mathrm{~Sv} / \mathrm{h}$ to $10 \mathrm{mS} / \mathrm{h}(0.1 \mathrm{mR} / \mathrm{hr}$ to $1 \mathrm{R} / \mathrm{hr})$
- 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 $1 \mu \mathrm{~Sv} / \mathrm{h}$ to $10 \mathrm{mSv} / \mathrm{h}(0.1 \mathrm{mR} / \mathrm{hr}$ to $1 \mathrm{R} / \mathrm{hr}$ ). 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 Ran | $1 \mu \mathrm{~Sv} / \mathrm{h}$ to $10 \mathrm{mSv} / \mathrm{h}(0.1 \mathrm{mR} / \mathrm{hr}$ to $1 \mathrm{R} / \mathrm{hr}$ ) |
| Display: | 4-digit LED display with 2 cm character height |
| Display Range: | 000.0-9999 (Series One: 00.00 to 9999) |
| Display Units: | $\mu \mathrm{R} / \mathrm{hr}, \mathrm{mR} / \mathrm{hr}, \mathrm{R} / \mathrm{hr}, \mu \mathrm{Sv} / \mathrm{h}, \mathrm{mSv} / \mathrm{h}, \mathrm{Sv} / \mathrm{h}, \mu \mathrm{rem} / \mathrm{hr}$, $\mathrm{mrem} / \mathrm{hr}$, rem $/ \mathrm{hr}, \mathrm{cpm}, \mathrm{cps}$, and others |
| Linearity: | Reading within $\pm 10 \%$ of true value with detector connected |

Operating Range: $1 \mu \mathrm{~Sv} / \mathrm{h}$ to $10 \mathrm{mSv} / \mathrm{h}(0.1 \mathrm{mR} / \mathrm{hr}$ to $1 \mathrm{R} / \mathrm{hr})$
Display: 4-digit LED display with 2 cm character height
Display Range:
Display Units:
Linearity: $\quad$ Reading within $\pm 10 \%$ of true value with detector connected

Response: Typically three seconds (10\%-90\% of final reading)
Instrument Status: Green Light instrument functioning properly
Low Alarm: Yellow Light and Slow Beep (one per second) 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 operation of the external rotary baffle and the internal voltage connection
RS-232 Output: A 2-second dump for computer data logging
Remote Display: Optional relay output available for connecting remote displays
Ethernet: Optional 10 Base-T connection for use with Ludlum Model 375 software
Temperature Range: -15 to $50^{\circ} \mathrm{C}\left(5-122^{\circ} \mathrm{F}\right)$ May be certified for operation from -40 to $65^{\circ} \mathrm{C}\left(-40\right.$ to $\left.150^{\circ} \mathrm{F}\right)$
Power: $\quad 9 \mathrm{Vdc}$ wall-mount adapter with four sets of prongs
Battery Life: $\quad 48$ 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
Construction: Aluminum housing with ivory powder coat finish
Dimensions: $\quad 7.4^{\prime \prime} \mathrm{H} \times 9.7^{\prime \prime} \mathrm{W} \times 2.5^{\prime \prime} \mathrm{D}$
Weight: $\quad 4.7 \mathrm{lb}$

Digital Area Monitor, 90-260 Vdc
Includes: Built-in GM Gamma Detector
Display is in $m R / h r$

