



PAM351L

# AREA GAMMA MONITOR

## TECHNICAL SPECIFICATIONS

- Radiation Detected** : x-ray and  $\gamma$  (gamma Radiation)
- Detectors** : Internal GM tube (effective length – 9.5" approx., effective dia.-0.79" approx. Sensitivity 160 cps/mR/hr) or GM Probe & 10m long cable (optional)
- EHT** : Typical 500V.
- Measurement Ranges** : 1 $\mu$ R/hr to 9999 $\mu$ R/hr
- Accuracy** :  $\pm$  15% throughout the Range, with Cs-137.
- Editable Calibration** : each point of lookup table is editable
- Display** : 5 digit, 0.5" LED, seven segments and 16 X 2 Dot-matrix LCD
- Display update time** : 2 sec.
- Response Time** : First reading on Power ON within 5 Secs.  
**Normal (slow):** 30 secs. Running average  
**Abrupt Detection:** Update the change in reading within 2 secs & return to normal 60 sec. running average
- Keypad** : Detachable 5 key keypad
- Keypad Configuration** : Menu :- Alarm, Instrument Address, recall, dump, storage Interval in minutes, date, time.  
**For Ethernet option only:** Gateway, IP address, Subnet mask
- Alarm trip point** : Settable
- Alarm indication (Visual):** 1) Normal condition indicated by Green LED cluster (below set level ).  
2) Active condition indicated by Flashing Red LED cluster. & loud audible sound ( above set level ).  
3) EHT failure alarm with flashing red LED cluster & 'Eht' message on display. Micro controller fail OR OFL
- Alarm indication (Audio)** : Loud audio tone with frequency 1KHz & 2KHz for Radiation Alarm.

### Alarm annunciation scheme:

| Parameter Status   | Visual indication (Red LED) | Audio |
|--------------------|-----------------------------|-------|
| Normal             | OFF                         | OFF   |
| Abnormal           | Flashing                    | ON    |
| On Acknowledgement | Steady Red                  | OFF   |
| Back to normal     | Steady Red                  | OFF   |
| Reset to abnormal  | Steady Red                  | OFF   |
| Reset on normal    | OFF                         | OFF   |

- Alarm output** : Relay with two changeovers, contacts normally remains energized & get de-energized in case of alarm.
- Controls** : **Acknowledge** : To mute the Audio alarm  
**Reset** : To reset the 'active' indication & relay MAINS ON & EHT ON switches provided with LED indications
- External Control** : Provision for external reset & acknowledge control
- Recorder O/P (optional)** : 4 to 20mA ( Accuracy  $\pm 0.2\%$  ).
- Remote/Console outputs** : Remote/Console outputs are given on D-connector. Optionally LCSO approved circular threaded coupling connector is available instead of D-connector
- Data Storage & Recall** : 500 datas with date and time stamping
- Communication (Optional)** : Ethernet  
**Ethernet Port** : Ethernet 10/100 Mbps port, Modbus/TCP as Slave.
- Network Commands**  
**Set & Read** : RTC- Date, Time, Alarm set point, Instrument address, Recorder output Max range, Storage Interval in minutes.  
**Read** : Type, status, Alarm, measured value, EHT value, Storage Interval in minutes  
**Control** : Acknowledge, Reset.
- Power** : 230V AC  $\pm 10\%$ , 50Hz  $\pm 3\%$ ,

**Note** : All optional items are at an extra cost.

Cat. No. : PAM 351L\_0719

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