

## AREA GAMMA MONITOR

TECHNICAL SPECIFICATIONS

- Radiation Detected** : x-ray and  $\gamma$  (gamma Radiation)
- Detectors** : Internal GM tube with energy compensated sheath & GM tube (effective length – 1.1" approx., effective dia.-0.306" approx. Sensitivity 7.5 cps/mR/hr) or GM Probe & 10m long cable (optional)
- EHT** : Typical 500V.
- Measurement Ranges** : 0.1 to 999 mR/h
- 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 16x2 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 30 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

<b>Alarm output</b>	: Relay with two changeovers, contacts normally remains energized & get de-energized in case of alarm.
<b>Controls</b>	: <b>Acknowledge</b> : To mute the Audio alarm <b>Reset</b> : To reset the 'active' indication & relay MAINS ON & EHT ON switches provided with LED indications
<b>External Control</b>	: Provision for external reset & acknowledge control
<b>Recorder O/P (optional)</b>	: 4 to 20mA ( Accuracy $\pm 0.2\%$ ).
<b>Remote/Console outputs</b>	: Remote/Console outputs are given on D-connector. Optionally LCSO approved circular threaded coupling connector is available instead of D-connector
<b>Data Storage &amp; Recall</b>	: 500 datas with date and time stamping
<b>Communication (optional)</b>	: Ethernet and serial port RS 485. (any one) <b>Serial Port</b> : RS485, 9600bps, MODBUS RTU protocols <b>Ethernet Port</b> : Ethernet 10/100 Mbps port, Modbus/TCP as Slave.
	<b>Network Commands</b> <b>Set &amp; Read</b> : RTC- Date, Time, Alarm set point, Instrument address, Recorder output Max range, Storage Interval in minutes. <b>Read</b> : Type, status, Alarm, measured value, EHT value, Storage Interval in minutes <b>Control</b> : Acknowledge, Reset.
<b>Outdoor Enclosure</b>	: Optionally available
<b>Power</b>	: 230V AC $\pm 10\%$ , 50Hz $\pm 3\%$ ,

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

Cat. No. : PAM 353\_0120

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