



**FML-9W-GM Electronics
FM-9**



Optional Submersible Probe

Features

- On-Line Real-Time Monitoring All Plug-in Modular
- Rack Mount or Wall Mount
- Single or Multi-channel
- Rugged GM Detectors
- Local or Optional Remote Monitoring
- High Level Alarm, Solid State, Non-Contacting
- RS-232 or Ethernet Data Download for PC and Remote Display Outputs
- Microprocessor Based Data Measurement and Display

Wide Range Beta-Gamma GM Area Monitor

Model FML-9W-GM



NEMA-4X

Application

Area monitors for use in and around nuclear reactors, hot cells, irradiators and other facilities handling radioactive materials.

Description

- The FML-9W-GM incorporates a digital alarm ratemeter, power supply, alarm, amplifier, choice of rack or case, and reliable GM detector.
- With the plug-in modular construction, additional channels or functions can be added.
- GM detectors and circuit design prevent the system readings from falling even in very high fields.
- Front panel controls allow the alarm set point to be displayed.
- Alarm activation produces flashing red light on front panel and piercing intermittent 2000Hz tone.
- **Optional** relay is also closed (or opened) for activation of remote alarms.
- **Optional** stand-by battery power available.



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OTCQB-UCLE

Wide Range Beta-Gamma GM Area Monitor

Model FML-9W-GM

Specifications

Range:	4 decade dynamic range 0.1 mR/hr to 1 R/hr * (artificial background supplied by internal radiation source in probe) *Other ranges available to 1,000 R/hr or down to 0.01 mR/hr.
Accuracy:	+/- 10% of decade
Detector:	Energy compensated halogen quenched GM detectors, in ruggedized probe with internal radiation source. Supplied with 8ft cable. Optional: Up to 500ft. of cable. Optional: High range systems use High Range GM detectors. Supplied with 8 ft. cable Optional: Up to 500ft. of cable.
Anti-Saturation:	Circuitry is incorporated to prevent readings from falling below full scale in over range conditions (tested to 1,000 R/hr).
High Voltage Output:	0 to +1500V at 200 A continuously adjustable.
Energy Dependence:	20% from 100KeV to 1.2 MeV.
Temperature:	Operating range between -30 C and 50 C; drift less than 17% per C at room temperature. 0-95% humidity non-condensing.
Readout:	User programmable.
Data Output:	RS-232 or Ethernet
Front Panel Controls:	Alarm Level Set, Display Alarm Set Point, Alarm Reset Pushbutton Power On-Off, Switch
Alarms:	Alarm level is adjustable over entire range. Alarm indicators include flashing red light and beeper.
Power:	105-125 V (or 200-240 V), 50-60 Hz. Optional: 12 Volt operation. Optional standby batteries, normally under continuous charge, automatically provide power for one week in event of AC power failure.
Mounting:	Electronics are normally furnished in FM-9 case but can be furnished uncased with mounting bars for rack or NEMA-4 (hostile environment) cabinet.
Options:	Multiple channel systems. Solenoid activated check source for system calibration. Remote Alarm-Audio / Visual Remote meter readout with alarm. Cable to 500 feet.



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