

Nuclear Power Plant Process Monitor

Model FM-9W-IC-25-HT Ion Chamber System

General Specifications

Detector

Detector Type:	High pressurized ion chamber
Range:	
STANDARD: 5 decades	1 μ Gy/h to 0.1 Gy/h (100 μ R/h to 10 R/h)
Range:	
OPTIONAL: 6 decades	1 μ Gy/h to 1 Gy/h (100 μ R/h to 100 R/h)
Dose Rate Range:	100 nSv/h – 1 Sv/h (10 mR/h – 100 R/h)
Energy Rejection:	Thermal Neutrons, Alphas, Betas
Energy Range:	80 KeV to 7 MeV
Response Time:	0.5 to 3 seconds (slower at lower decade, faster at higher decade)
Environment:	Temperature: 165o C duration of 12 Hours Relative Humidity: Up to 95% Total Integrated Dose: 2 x 10 ⁶ Gy
Accuracy:	< \pm 10%
Temperature Dependence:	<.2% / °C
Storage Temperature Range:	-40°C to 85°C


Electronics (LPDU) FM-9W

Read Out:	Alpha-Numeric
Modes (Five):	Alert, High, High-High, Operation, Test
- Alarms:	User Settable To Any Trigger Level
Alarms – Beacon Assembly:	Green, Yellow, Red
Low Level Alarm:	Automatic reset
High Level Alarm:	High level alarm remains activated until ACKNOWLEDGE & RESET button is pushed.
Alarm Clearance:	Automatic Reset
Visual Alarm:	On-screen alarms and warnings. Red: High level. Amber: Low level
Environment:	Temperature: Up to 50o C Relative Humidity: Up to 95% Total Integrated Dose: 10 Gy

Weight & Dimensions:	
Size:	12" x 12" x 12"
Weight:	26 lbs



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