



Inputs	Ratings
AC Input Power OR	230 or 120 VAC, Single Phase, ±10%, 50/60 Hz, <150 VA
DC Input Power	125 VDC, ±10%, < 150 Watts
Preamplifier Input Impedance	50Ω typical, other values available upon request
Detector Input Connectors	SHV typical, other input connection types upon request

Note 1: Post-accident monitoring (PAM) functionality requires US NRC RG 1.97 qualified detector.

Outputs	Ratings	Accuracy
Pulse Level	5 VDC TTL 0 to 10 ⁶ CPS	±1% Full Scale
Log Count Rate Level	0 to 10 VDC or 4 to 20 mA 0.1 to 1E+6 CPS	±2% Full Scale
LCR Rate (Doubling Time)	0 to 10 VDC or 4 to 20 mA -30 ... ∞ ... 3 seconds	±1% Full Scale
Ion Chamber High Voltage	100 to 3000 VDC, 10 W Max	±5% Full Scale
Front Panel Isolated BNC Multiple Signal Selections	0 to 10 VDC	1% Full Scale

LCR Level Trip 1*	Form C Relay, 125VDC / 100mA Max
LCR Level Trip 2*	
LCR Rate Trip 1*	
LCR Rate Trip 2*	
Channel-In-Test	
Non-Op	
Door Open	

Audible Count Rate, Manual Divider Selectable (1, 10, 100, 1k, 10k)	90 dB at 30 cm	0–55 CPS
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*Increasing or decreasing slope selectable.

Enclosure	Specification
Size (L x W x H)	24" x 16" x 10" (61 cm x 41 cm x 26 cm)
Weight	50 lbs (23 kg)
Material	Stainless Steel
Mounting	Wall Mount (4 Tabs)
Security	Locking Door
Temperature Range	32°F to 140°F (0°C to +60°C)
Relative Humidity	10% to 95%, non-condensing
Qualification	Safety Class 1E

Fully Analog Electronics

Safety Class 1E

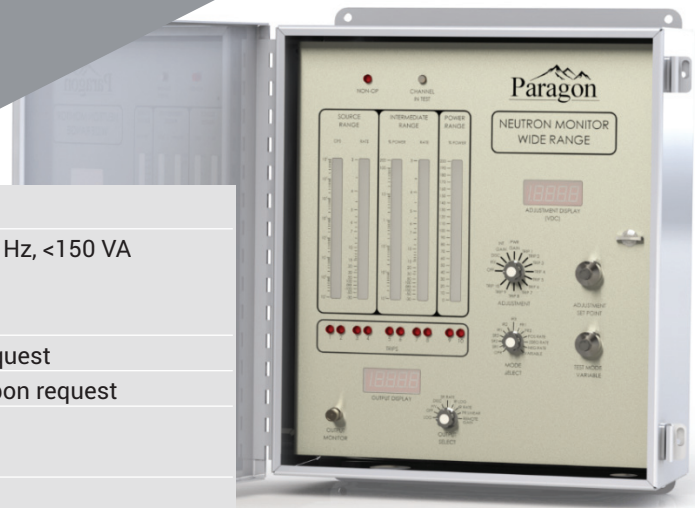
- Used during reactor start-up and post-accident monitoring (PAM) utilizing an ion chamber such as a BF3, B-10, He3, or fission chamber.
- The unit features a selectable internal test function generator and multiple trip functions for each flux measurement output.
- The unit also features two multi-digit displays and two vertical bar graphs for easy identification of displayed variables.
- Displays and operator controls are designed to comply with NUREG-0700.

Paragon develops innovative solutions for the nuclear industry that are safer, more reliable, and more cost-efficient.



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Inputs	Ratings
AC Input Power OR DC Input Power	230 or 120 VAC, Single Phase, ±10%, 50/60 Hz, <150 VA
Preamplifier Input Impedance	50Ω typical, other values available upon request
Detector Input Connectors	HN typical, other input connection types upon request
Remote Gain* (Flux to Thermal Matching)	Fiber Optic Interface

*With use of Remote Gain Pendant

Outputs	Ratings	Accuracy
Pulse Level	5 VDC TTL, 0 to 10 ⁶ CPS	±1% Full Scale
Log Count Rate Level	0 to 10 VDC or 4 to 20 mA, 0.1 to 1E+6 CPS	±2% Full Scale
LCR Rate (Doubling Time)	0 to 10 VDC or 4 to 20 mA, -30 ... ∞ ... 3 seconds	±1% Full Scale
Wide Range Log	0 to 10 VDC or 4 to 20 mA, 10 ⁻⁸ to 200% Power	±1% Full Scale
Wide Range Rate (Doubling Time)	0 to 10 VDC or 4 to 20 mA, -30 ... ∞ ... 3 seconds	1% Full Scale
Linear Power	0 to 10 VDC or 4 to 20 mA, 0 to 200% Power	1% Full Scale
Ion Chamber High Voltage	100 to 1500 VDC, 10 W Max	5% Full Scale
Front Panel Isolated BNC Multiple Signal Selections	0 to 10 VDC	1% Full Scale
LCR Level Trip 1*	Form C Relay, 125VDC / 100mA Max	
LCR Level Trip 2*		
LCR Rate Trip 1*		
LCR Rate Trip 2*		
WR Level Trip 1*		
WR Level Trip 2*		
WR Rate Trip 1*		
WR Rate Trip 2*		
PR Level Trip 1*		
PR Level Trip 2*		
Channel-In-Test		
Non-Op		
Door Open		

*Increasing or decreasing slope selectable.

Enclosure	Specification
Size (L x W x H)	24" x 16" x 10" (61 cm x 41 cm x 26 cm)
Weight	50 lbs (23 kg)
Material	Stainless Steel
Mounting	Wall Mount (4 Tabs)
Security	Locking Door
Temperature Range	32°F to 140°F (0°C to +60°C)
Relative Humidity	10% to 95%, non-condensing
Qualification	Safety Class 1E

Fully Analog Electronics Safety Class 1E

- Qualified for normal reactor operating conditions and post-accident monitoring (PAM), utilizing a guarded fission chamber (GFC).
- The unit features a selectable internal test function generator, a fiber optically interfaced remote gain input, and multiple trip functions for each flux measurement output.
- The unit also features two multi-digit displays and five vertical bar graphs for easy identification of displayed variables.
- Displays and operator controls are designed to comply with NUREG-0700.

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