Ronan Measurements Division supplies the process control industry with leading-edge Radiometric Measurement Systems that provide non-contact measurement solutions for the harshest environments.

X96SI/R RADIOMETRIC TRANSMITTER

Ronan's X96SI/R Radiometric Transmitter is compatible with all Ronan scintillation detectors, and is interchangable between Level, Density and Weight applications. The new integrally-mounted transmitter includes a patented optical coupling that allows the transmitter and detector electronics assembly to be easily mounted to any detector configuration. The transmitter can also be remotely mounted in the field or control room.

Fully Ethernet capable, configurations, software updates, and data logging can be completed easily through the user's PC using a standard web browser. The X96SI/R is available in explosion proof, weatherproof or stainless steel housing. The system is backward-compatible to enable you to easily upgrade existing systems to newer transmitter technology.

Ronan Transmitters are compatible with any I/O including: Ethernet, HART, Profibus and Fieldbus, USB port, 4-20 mA or 0 – 10 v.d.c., Relay(s) output, and Transistor type.

State-of-the-art transmitter-based electronics provides precision gauging. The system is menu-driven for simple programming. Built-in intelligence provides a range of features including:

X96SI/R Radiometric Transmitter

– Automatically compensates for process build-up
– Automatic source decay compensation
– Auto calibration
– Radiation discrimination
– State of the art dynamic tracking of process fluctuations
– Data logging and event recording
– Adjustable time constant
– Empty pipe alarm

The X96SI/R System is ideal for applications including:

– Density Measurement
– Mass Flow Measurement
– Continuous Level Measurement
– Point Level Measurement
– Interface Level and Density Measurement
– Continuous Weight Measurement

X96SI/R Specifications

Performance	
System Accuracy	+/- 1 % span
Outputs	4-20mA HART® 4-20mA, Foundation Fieldbus™ PROFIBUS PA 2 Form "C" Relay Outputs with 1 Isolated Open Collector Outputs capable of switching 4.5 to 30 volts – Or – 1 Form "C" Relay Outputs with 3 Isolated Open Collector Outputs capable of switching 4.5 to 30 volts
Pressure Input Temperature Input	Support for Process Pressure from 0-10 volts, or 4-20 mA Up to 3 Digital Inputs which can be configured individually, quadrature, encoders or pulse counters inputs Nickel or Platinum RTD
Diagnostics	On-Board Modular Self-Test Watchdog Timer and Status LEDs
Calibration	Available through web browser, PC-based software or hand-held Communicator/DCS Utilizing HART® Foundation Fieldbus™ or PROFIBUS PA USB Ethernet RS-232/RS-485 (optional)
Environmental	
Operating Temperature	-10 to +60 C
Electrical	
Power Supply	90-240VAC, 24 VDC @ .035 A
Mechanical	
Construction Housing	NEMA 4 (standard) Stainless Steel (optional) Explosion Proof (optional)
Approvals	
Complies with:	Cenelec/Atex CSA Class 1, Div 1 Groups A,B,C,D Nema 4, Nema 4X

RONAN

ENGINEERING COMPANY

MEASUREMENTS DIVISION