REDMETERS

INDUSTRIAL MEASUREMENT SYSTEM

Application Highlights

- Engineered and manufactured in the USA
- Onsite commissioning and remote support
- The best liner options for chemical and abrasion resistance
- Will not Intrude upon, Obstruct or Redirect the Flow of Media
- Vibration Resistant
- Not Affected by the Conductivity of the Media
- Low Maintenance Costs
- No Special Regulatory permitting or Safety concerns

Additional Performance Attributes

- Fully Functional On-Board Computer Ensures Speed, Accuracy and Complex Processing
- Easy “Bolt-In” Installation
- Advanced Algorithms for Real Time Process Variable Compensation
- Industrial IP rated connectors
- 2 Customizable analog 4/20 mA outputs
- Modbus TCP/IP for digital communication protocol
- Red Meter Ruby software with easy to use interface



Copyright © 2023 - Red Meters LLC

REDMETERS

Specifications Summary

Internal Pipe Diameters	25mm to 1500mm - (1” to 60”)
Accuracy	± 0.5%
Repeatability	± 0.4%
Power In	110 to 240 V AC - Internal Conversion to 24 / 12 / 5 VDC
Operating Temperature	-10°C to 130°C; (14°F to 266°F)
Flanged Connections	ANSI, DIN, BST, JIS
Output Measurement Rate	1 Hz
Input Laser Sensor Reading	1000 Hz
Input Temperature Sensor Reading	50 Hz
Network Capability	LAN RJ45 100 Mbps; WiFi 2.4/5 GHz
Storage Temperature	-40°C to 80°C; (-40°F to 176°F)
Weir Minerals Liner Options • Linatex • Linatex HM • Linard HD • Linard 60 • Linagard OZ • Linagard OSR • Linagard NBR • Linagard FG • Linagard BB	• Excellent anti-sticking andanti-build up properties • Excellent resistance toinorganic chemicals • Excellent UV and ozone resistance • Excellent resistance tohigh temperatures • Low gas permeability • Unsurpassed flexibility for ahard rubber compound • Excellent resistance to cutting bysharp-edged products • Good wet abrasion resistance
Display Format	10.1-Inch TFT LCD TouchScreen Monitor with PCAP Touch. SunlightReadable. IP67. Waterproof Connectors.
Display Options	User Configurable Display Options
Security	User permission via a PIN Secured Configuration and Calibration Menus
Customer Support	Full Remote Support is available Monday - Friday 9 - 5 EST Commissioning and assistance with installation and servicing is availabe upon request.

Copyright © 2023 - Red Meters LLC

REDMETERS

Operational Considerations

Pressure Reading	< 0.3%
Calibration	Factory Calibrated; Field Verification, Calibration certificates are available upon request.
Maximum Operating Pressure	Current pressure ratings available are 0 to 300 PSi / 0 -20 Bar
Enclosure	IP rated enclosure. Primed and painted to specifications
Pressure Gauge	International Explosion Protection Certificates, Overfill Prevention WHG, Hygienic Approvals (NSF), Marine Approvals, SIL2/3, Certified to IEC 61508
Highest Quality Sourced Materials	Painted, Carbon Steel - All Welded Joints. 316 Stainless steel is Optional

Electrical & Electronics Specifications

Clock	Real Time Clock with Battery Backup - Local Time Display for generated reporting
Internal Laser Source	Class 1 (FDA (CDRH) Part 1040.10)
Internal Inputs	1 X Digital Laser Signal1 X Thermistor1 X 4-20mA
Accessible Inputs	1 X 4-20mA
Outputs	2 Channel 4-20 mAModbus TCP
Wiring	Wired to IPC Standards and/or Local Code Requirements

Display / UI Specifications

Display	10.1" Ruggedized Color Touch Display - 1280 x 800 LCD
Configuration	User Configurable Display Options
Security	PIN Secured Configuration and Calibration Menus
Accessibility	Remote Support and Updates

Ratings and Certifications

HMI Enclosure	UL Certified, IP67 Rated
External Electronics Connections	NEMA

Copyright © 2023 - Red Meters LLC