

TECHNICAL BULLETIN:

MeterEye



MeterEye

MeterEye® is a revolutionary turn-key solution for remotely monitoring meters that were not designed for telemetry, giving producers and endusers the benefit of real-time information. MeterEye® simply and non-invasively captures an image of the meter face and wirelessly delivers it to AMCi-Wireless' web-based SCADA. Stores viewable images and data, generates reports, displays graphs and configures alarms - including digital meter low battery indication - using just a web browser.



KEY FEATURES

Two-Way Satellite Communication

Built-in GPS Receiver and Antenna

Simple Integration with I/O Board and Terminal Blocks

I/O Channels - Configure as Digital I/O or as Analog Input

AMCi-Wireless SatAlarm®-Server

36 Month Warranty

First-Fault Monitoring

Polycarbonate NEMA-4x/6P lockable enclosure



PRODUCT BENEFITS

Save time, Money, Wear and Tear over Manual Meter Reading

Reduce Safety Risks

Increase Efficiency

Streamline End of Year Water Reporting

Quickly Identify Flow Meter Problems

Unique User Password Insures Data is Secure and Private

24/7 Technical Support

SatAlarm® Server Web-Based SCADA

- Web browser based historian
- Color graphical interface
- User configurable displays
- Customizable dashboard
- Multi data point graphs
- Data tracking
- Integrated Maps
- Equipment configuration
- Device control
- Data conditioning
- Reporting

EXTERNAL INTERFACES

- Serial: 2 ports; RS-232 and RS-485 • I/O: 4 channel; individually configurable as analog input or digital input/output
 - o Analog inputs: 0 – 3.0V, 1.0mV (12-bit) resolution; 4-20mA, 143 Ω loop resistor
 - o Digital inputs: -10 – 150VDC safe, pull-up or pull-down
 - o Digital outputs: 32VDC safe, 250mA sinking (open drain), or 3VDC, 25µA (push-pull)
- Additional I/O available using Modbus I/O expansion modules

PROGRAMMING

- Reporting (configured over the air):
 - o Configurable time-of-day based schedule
 - o Configurable interval-based schedule
 - o 3 minutes up to once every 3 days
 - o By exception; user definable test conditions
- Modbus RTU:
 - o 16 configurable commands
 - o Data reportable by schedule, interval, threshold test, any change, or pattern match

GPS

- Acquisition Time: 27 seconds (warm & cold)
- Accuracy: 2.5 meters (CEP-Horizontal)
- Sensitivity:
 - o Acquisition: -147 dBm
 - o Tracking: -159 dBm

SATELLITE MESSAGING

- Two-way, global, IsatData Pro
- From terminal (max per message) - 6400 bytes
- To terminal (max per message) - 10,000 bytes

SATELLITE COMMUNICATION

- Frequency
 - o From terminal: 1626.6 – 1660.5 MHz
 - o To terminal: 1525 – 1559 MHz
- Elevation Angle: 20° to 90° for communications link
- Maximum EIRP: 7.0 dBW
- Maximum Antenna Gain: 4.5 dBics

POWER

- Solar Power: 12VDC, 5W, 7Ah

CERTIFICATIONS/COMPLIANCE

- Satellite - Inmarsat
- Other - C-Tick, CE, FCC, IC, Anatel, RoHS(?)

ENVIRONMENTAL

- Operating Temperature: -20°C to +50°C
- Storage Temperature: -40°C to +85°C
- Humidity: 90%RH @ 85°C; meets SAE J1455
- Dust and Water Ingress: IP66/Nema-6P (with door screws installed)

ENCLOSURE

- Polycarbonate
- Nema-4x/6P (with door screws installed)
- 1x ½-inch pass-thru cord grip
- Lockable

PHYSICAL

- 5.0 x 5.0 x 4.0

WARRANTY

- 3 year standard limited warranty

*Disclaimer AMCi warranties MeterEye hardware for a full three years (36 months) * * Warranty is subject to AMCi published Terms and conditions.*