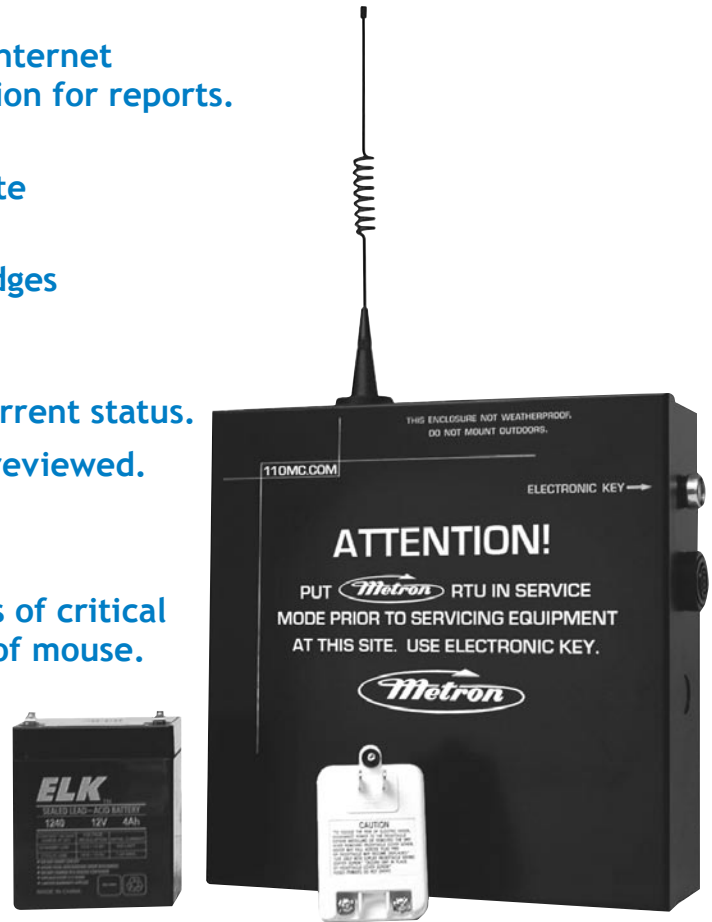




PUMP SENTRY 110 Series

Wireless Monitoring And Alarm System

- Monthly Flow Totals with Archive - Easy internet access to historical and current information for reports.
- Digital Cell Phone Communications - Minimize chance of obsolescence with state of the art technology.
- GSM GPRS Service - Inherently acknowledges transmitted information and eliminates latency issues.
- Hourly Monitoring - Constant updating current status.
- PTRB Approved - Cellular phone service reviewed.
- Voice Recording of Acknowledgement - Accountability of alarm recognition.
- Mouse Over Summary - See current status of critical system issues via internet map with use of mouse.
- Battery Back-up - Allows for notification on power outage.



Simpler than an autodialer to use, and with many SCADA features. The complete system includes the PUMP SENTRY 110 field RTU, all wireless connections, report and graph software, all alarms and a website. **SCADA made simple.**

One PUMP SENTRY 110 Is A Complete Wireless Monitoring System

Each PUMP SENTRY 110 includes a field RTU, wireless communications through data cellular, web based software, amazing alarm notifications, and a customer website. The whole system is up and running in a few hours.

The PUMP SENTRY 110 RTU Comes With Everything You Need

Each RTU has 11 digital, 2 analog, 2 pulse counter (optional) and 1 key reader inputs; 3 remotely controllable outputs. It also includes a radio, enclosure, antenna, antenna cable, power supply and backup battery.

Remarkable Wireless Coverage And Reliability

The PUMP SENTRY 110 uses the cellular system, but not the part you talk on; it's the part cell companies track their revenue on. It works where your cell phones don't and is much more reliable.

Centralized Web Software And/Or Direct Into Yours

METRON's web based software is very simple; we set it up for you and upgrades are included and automatic. And you can send your data directly into your existing software like Wonderware® or Intellution®.

Full Suite Of Cost Saving Software Features

It tracks hourly run times and starts, graphs them, analyzes them and calls you if there's a problem. False alarm suppression features and real time data during alarms saves time and money.

Flexible Alarm Notifications, Tracked To Alarm Site

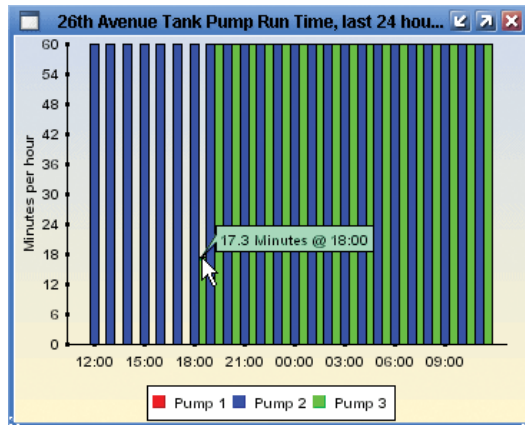
Alarms can be delivered via voice phone calls, all pagers, email or fax. Full alarm dispatch logs track and record every call. Electronic RTU service keys log personnel site arrival and maintenance times.

Website Provides Remote Data Access & Reports

Customers get their own secure web sites to view data anywhere, including in the field through their cell phones. Data for CMOM/State/EPA reporting is all there.



PUMP SENTRY 110 Series Wireless Monitoring And Alarm System



Details

For the first time, this industry has available a truly low cost, wireless monitoring system that will work virtually everywhere, and will outperform autodialers and most long range radios. Alarms, trending graphs and compliance reports are all included. It's extremely easy to install and use; the FlatPak version is small enough to fit inside an existing PLC's NEMA enclosure.

Messages arrive at METRON Control from field RTU's located anywhere in the country in 5 seconds or less. METRON then delivers the alarm or status message to your existing phones, pagers, faxes, etc., in addition to storing the event at your custom METRON web site. There are no cellular contracts or licenses to obtain; METRON handles all hardware and services. In addition to more standard SCADA functions such as reporting general alarms, pump run times, pump starts, meter reading and well/tank level monitoring, METRON's system has more advanced SCADA functions. The system actually analyses pump performance on an hourly and daily basis using customized, long term statistical formulas. When they detect abnormal pump performance, the system automatically notifies you of the trouble. Catching problems early before they become catastrophic failures saves a lot of money.

The PUMP SENTRY 110 system has many unique features. Electronic service keys turn the RTU off (no false alarms), acknowledge alarms at that site and document/log service personnel site inspections and maintenance. The RTU even turns itself back on after an hour if you forget to. METRON's amazing notification system not only logs all alarms and who acknowledged them, it tells you what happened with each notification attempt, who showed up next at the alarm site, when they got there and how long they were there. Filling out site activity logs manually is now automated. On-line diagnostics provide a multi-point snapshot of each wireless link. The system continuously self tests and automatically generates and delivers management reports. Now supervisors can conveniently oversee what's happening, who's responding and when it happened. Only METRON can bring you this level of performance, reliability, flexibility and convenience at breakthrough prices – significantly less than the price of autodialers, and about half the monthly phone line costs! Add all our money saving features and many customers think we save them more money than the cost.

Technical Specifications Summary

Hardware:

- 8 supervised digital inputs, first 3 changeable to run time/starts accumulators. 3 additional digital inputs built in (AC and battery fail, input wiring fault).
- 2 analog inputs: 0-5 VDC, 4-20mA, 10-bit resolution, 4 alarm set points per input
- 2 pulse counter inputs (opt.): meter or flow reading
- 1 electronic key reader for site activity tracking
- 3 remotely controllable, form C dry contact relay out puts (1 amp @ 12 VDC), N.O./N.C.
- Supervised 1.2 amp power supply with 5ah battery backup included
- 8 vertical LED's have two display modes: diagnostic or signal strength.
- 8 channel LED's display alarm status

Radio:

- Units automatically self enroll, no startup delays
- GSM GPRS, IDEN or CDMA 1xRTT radios using the data transMetron protocol
- 0.6 to 2 watt maximum transmit power
- Radio sensitivity: -112dbA

Antenna:

- Standard 3 db gain omnidirectional antenna with NMO mount
- Low profile, attack resistant and high gain (Yagi) optional.

Physical:

- PUMP SENTRY 110 NEMA1 enclosure: 11" h x 11" w x 3.5" d
- M112 NEMA4X enc: 13.25" h x 13.75" w x 5.5" d
- M113 NEMA1 "FlatPak": 7.75" h x 10.5" w x 1.5" d
- Operating temperature -20F to +160F

Wonderware is a registered trademark of Invensys plc. Intellution is a registered trademark of Intellution, Inc.
All Rights Reserved, Patents Pending. Specifications subject to change without notice.

Metron, Inc. 1505 West Third Avenue • Denver, CO 80223
Phone: 303.592.1903 • Fax: 303.534.1947 • www.metroninc.com

Draft - Rev 1.6