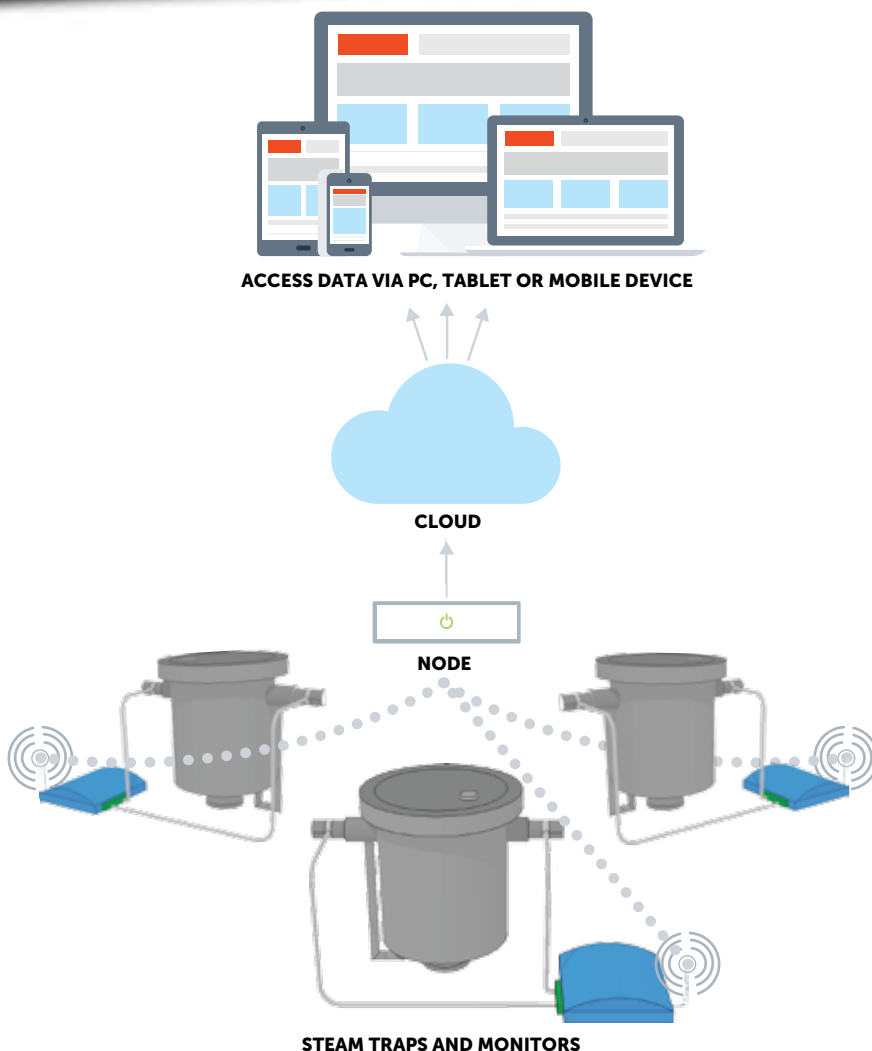


Wireless Steam Trap Monitor

The Entronix team has developed a solution to relieve the operating complications of steam systems. Instead of time-consuming manual audits, Entronix pairs their EMP platform with steam trap monitoring technology to help you minimize energy costs through non-invasive monitoring of your existing steam traps to remotely detect early failures.

Entronix first installs wireless steam trap monitors, which consist of sensors that measure the inlet and outlet temperatures of a steam trap. The sensor data is transmitted to an Entronix Node for analysis. The monitors are capable of wireless communication with a node up to 1,600 feet away. If more range is needed, wireless repeaters can be installed, increasing the range to up to 6,000 feet. Each node is capable of receiving data from up to 255 different steam trap monitors.

Using any cellular, wired, or wireless Internet connection, the node then pushes its data to the Entronix cloud-based platform. From here, the steam trap data is used to create reports on the steam trap's status. These reports can be accessed by any Internet-connected smart phone, tablet, laptop or PC. Entronix can diagnose costly steam trap failures in real-time and immediately alert all appropriate personnel.



SYSTEM FEATURES

NON-INVASIVE MONITORING OF STEAM TRAPS

REMOTE MONITORING OF TRAP HEALTH WITHOUT WIRING COSTS

PROVEN INDUSTRY METHOD FOR STEAM TRAP FAILURE DETECTION

ONE-TIME CALIBRATION AND SET-UP

SIMPLE USER INTERFACE FOR FAILURE ANALYSIS

WIRELESS DATA SEAMLESSLY CONNECTS TO ENTRONIX EMP CLOUD SERVERS

ROHS AND ETSI COMPLIANT

USES ROBUST AND HIGHLY OPTIMIZED INDUSTRIAL DSSS RADIO AND PROTOCOL WITH ANTENNA AND FREQUENCY DIVERSITY

OPTIONAL NEMA4/IP66 ENCLOSURE

CONNECTIVITY TO EXISTING BUILDING OR PLANT AUTOMATION SYSTEMS VIA OPC OR BACNET

SAVE ENERGY COSTS BY CAPTURING STEAM TRAP FAILURES EARLY

ELIMINATE MANUAL STEAM TRAP AUDITS

PREVENT PIPE DAMAGE CAUSED BY BLOCKED TRAPS



PRODUCT SPECIFICATIONS

WIRELESS STEAM TRAP MONITOR (WSTM-100)

Steam Trap Compatibility:	All mechanical steam traps, 1/2" (12.5mm) steam line and up
Max Steam Pressure:	800 psi (55 bar)
Data Capture Rate:	User-configurable
Thermocouple:	Type K, 32°F to 2012°F (0°C to 1100°C)
Max Thermocouple Length:	5ft (1.5m) standard length. Custom lengths available upon request.
Wireless Frequency:	2.4GHz Direct Sequence Spread Spectrum, 100mW peak output
Wireless Range:	Up to 1600 ft (488 m), high interference immunity, extendable with repeaters
Wireless Protocol:	Highly optimized industrial DSSS radio and protocol. Integrates robust security, antenna and frequency diversity, optional encryption and minimal interference with existing wireless systems.
Approvals:	FCC Class B compliant, RoHS, ETSI compliant
Power Supply:	Two 3V lithium batteries
Battery Life:	>3 years (approximate)
Humidity:	10-99%RH, non-condensing
Operating Temperature:	-4°F to 158°F (-20°C to 70°C)
Storage Temperature:	-40°F to 185°F (-40°C to 85°C)
Enclosure:	Rugged extruded aluminum industrial chassis (optional NEMA4/IP66 enclosure)
Dimensions:	5.7" x 2.2" x 1.6" (145mm x 57mm x 42mm)
Weight:	0.51 lbs (230g)

NOTES: