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Steam Trap Monitoring Solution

TRY OUR RISK FREE
Pilot Program!

The Pulse IoT solution can reduce your energy costs by hundreds of thousands of dollars per year and minimize downtime

- Avoid production downtime
- Decrease CO2 emissions
- Minimize wasted energy
- Reduce equipment damage
- Eliminate unnecessary costs
- Receive failure alerts via email

How It Works

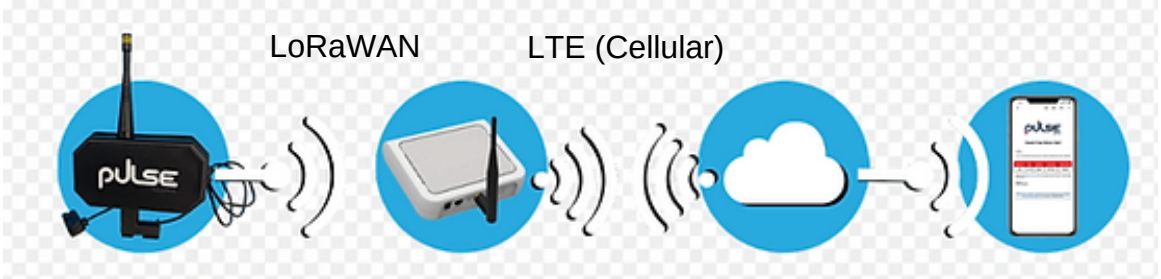
Book a Demo

1. Easy-to-install steam trap sensors positioned on each steam trap

2 Receive data readings continuously through secure LoRaWAN network

3. Users notified of trap failures immediately through email alerts

4. SaaS network support and upgrades for low monthly fee



The New Generation of Monitor Solutions

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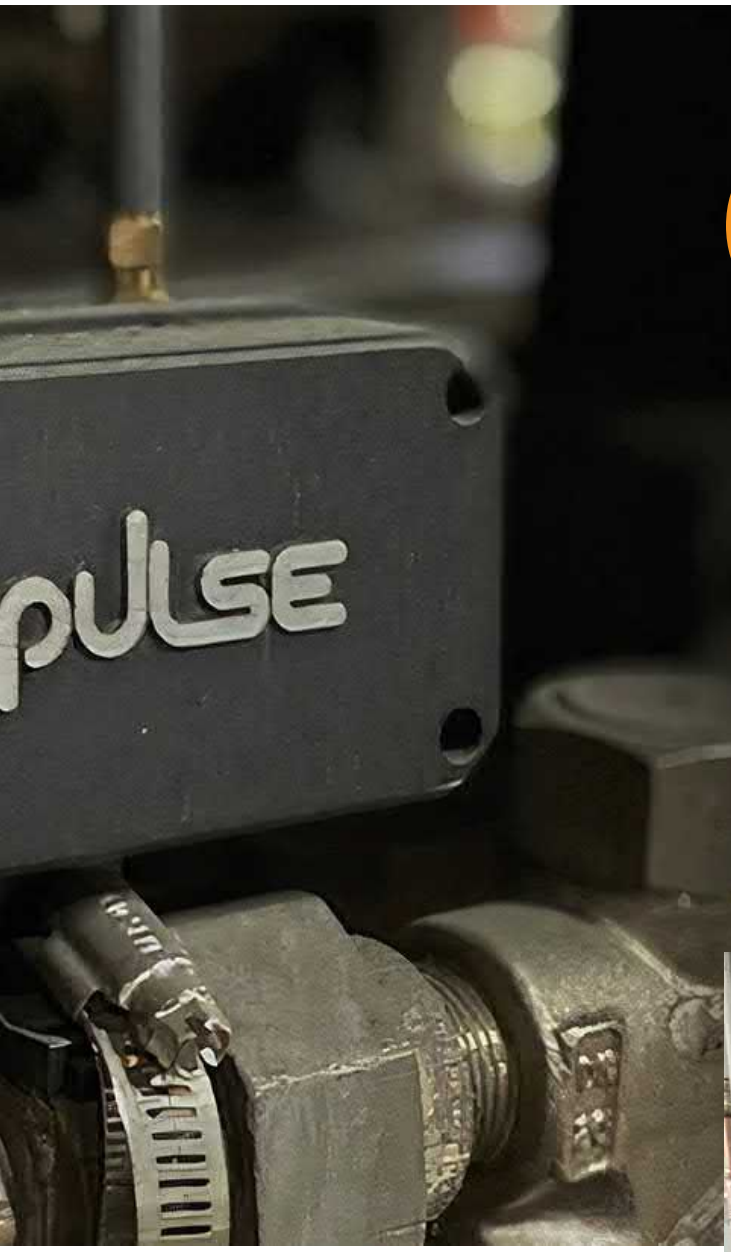
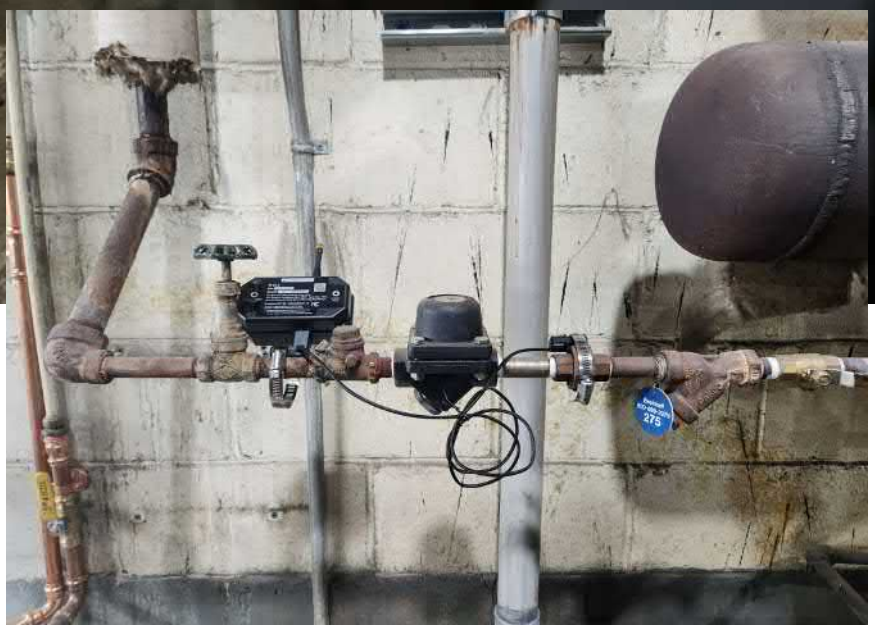


Detect both open and closed failures for peace of mind

Our steam trap sensors weigh less than a cell phone but are tough enough for any environment and offer higher reading accuracy than other solutions or manual inspections.

They are equipped to collect both sound and temperature data and can be installed in minutes on on all steam trap types



Send email alerts directly to personnel

Book a Demo

Email alerts can be sent to any number of users

Security parameters can be customized to ensure clearance protocols are in place

Alerts specify all the information necessary to make decisions on how to proceed

Users don't need to be logged in to dashboard in order to stay current with steam system health

Your maintenance team can rest assured that the system is functioning at optimum levels and designate resources on projects rather than inspections

Preconfigured to LTE/3G network directly to our cloud (no WiFi required)

Plug and play

Secure stand-alone data gateway

Support up to 100 wireless steam trap monitors per gateway

LoRaWAN 915 MHz - 200 meters indoors, 2 km outdoors

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Steam Trap Monitor Data Sheet

- Acoustic and dual temperature sensors for most accurate failure detection on the market
- QR label (As per LoRa Alliance Technical Recommendation TR005) with unique identifier to allow smartphone scanning
- Durable and lightweight PPE housing
- LoRaWAN communication protocol for ranges up to 2 km
- Arm® Cortex®-M4 microcontroller for onboard spectral analysis and edge processing
- Secure Hardware with AES 256-bit encryption
- Easy non-invasive plug & play installation requiring no special tools or system down time

Data Specs

Housing	PPS and PPE/PPO
Pipe Clamp	Cast iron electroplated
Pipe Diameter Range	All Sizes
Antenna	TFP
Battery Type	Lithium Thionyl Chloride 3.6V
Battery Life	7 years (lifetime battery warranty)
Dimensions (including foot and antenna)	119.96 mm x 140.02 mm (4.7" x 5.5")
Weight	243 grams
Radio Output	LoRaWAN Class A, 915 mHz, max SF10
Transmit Power	+30 dBM (-146 dB RX sensitivity)
Enclosure Rating	NEMA 4x
Ambient Temperature Limit	0 C to +45 C (32 F to 113 F)
Max Steam Pipe Temp	300 C (572 F)
Max Condensate Pipe Temp	200 C (392 F)
FCC Certification	Yes

Real-Time Steam Trap Monitoring

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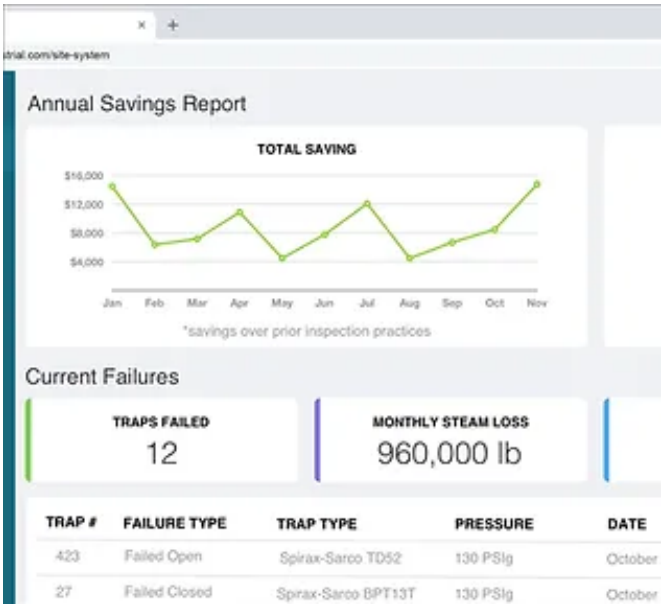
Manage your steam trap sensor inventory from the dashboard



Customized steam trap sensor inventory management in one place

Use visualized data to confirm automated failure alerts

Review health and operating costs of steam traps in real-time

Incorporates strenuous cloud security protocols

Steam Traps Fail Often
Failures are frequent, expensive, and hidden
Steam traps have a 8 -15% annual failure rate leading to production downtime and expensive leaks

Open Failures lose steam and can cost $10,000 - $100,000 in lost energy, as well as affect system pressure and efficiency.

Closed failures can halt heat production and can build pressure to dangerous levels

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