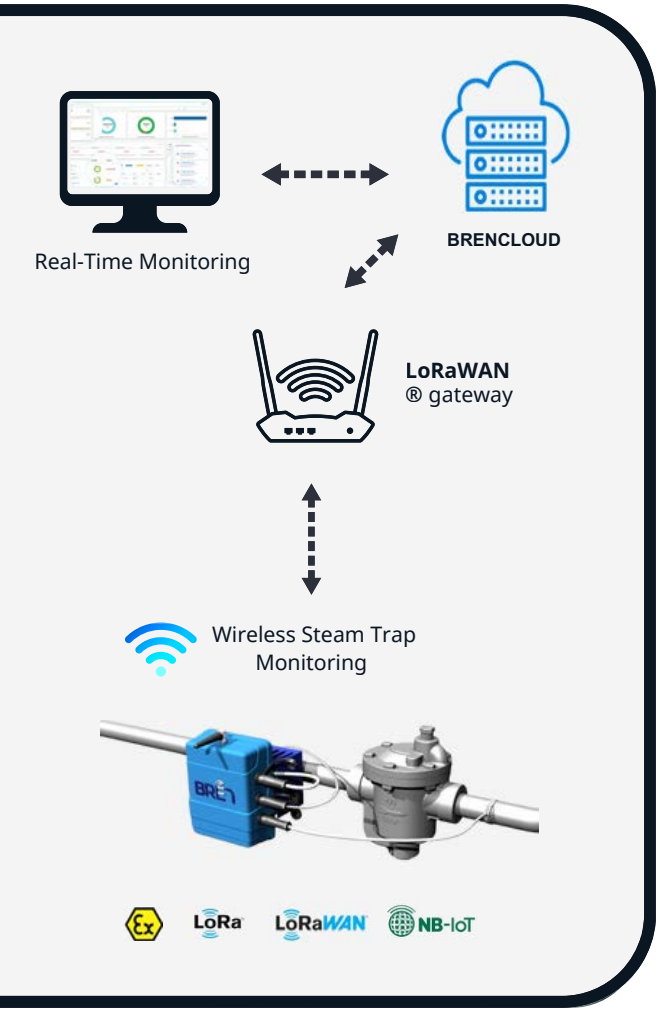
Steam Trap Monitoring

Datasheet

UFM - Bren STM

UFM - Bren STM is an advanced Steam Trap Monitoring solution that combines AI-powered predictive maintenance with precise real-time measurements. It detects steam leaks at varying levels, identifies blocked or malfunctioning steam traps, and monitors condensate mass flow discharge. With continuous temperature and pressure tracking, it ensures optimal system performance while minimizing energy loss.

Additionally, UFM - Bren STM safeguards against water hammer events, enhancing both efficiency and system safety. Designed for reliability and sustainability, it helps industries achieve significant cost savings and operational excellence.





Features

Steam Trap monitoring
Continuously monitors steam trap condition and detects blockages to support timely maintenance.

Steam Leakage detection
Detects and categorizes steam leaks in real time to reduce energy losses.

Steam/Water Hammer detection
Identifies hammer events to help protect equipment and improve system safety.

Real-time Performance monitoring and analysis
Continuously analyses steam system data to support operational efficiency and identify potential issues early.

Battery less Sensor technology
Uses battery less sensors to eliminate dependence on batteries.

Technical specifications

Parameter	Specification
Model	UFM - Bren STM – Steam Trap Monitoring
Ambient temperature	−20°C to +80°C
Measurement temperature	−70°C to +500°C
Measurement vibration	±2 / ±4 / ±8 / ±16 g (3 axes: X, Y, Z) *
Power supply	Self-powered with nanogenerator technology (−1.86 W). Max. temperature: continuous 200°C; intermittent 230°C.
Protection class	IP66
Housing	ABS fireproof and antistatic engineering plastic VO*
Product certifications	CE, ATEX IIC*
Hardware installation	Adjustable clamps; suitable for nominal pipe diameters (as stated by supplier).
Wireless protocols	LoRa / LoRaWAN / NB-IoT
Wireless bands	EU433, EU868, US915, AS923
RF output	+20 dBm (100 mW) constant RF output vs. V supply
LoRa antenna	5 dBi
LoRa communication range	Indoor: 0.1 km; outdoor: 1 km
Energy storage	3.7 V Li-ion/polymer battery (back-up)
Product warranty	2 years

** Valid for Bren STM v2.*

UFM - Bren STM module:



Dimensions:

113 × 97 × 71 mm

