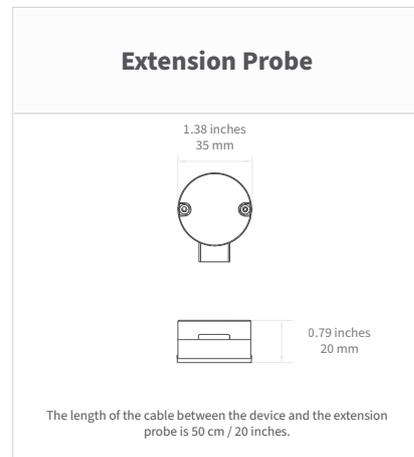
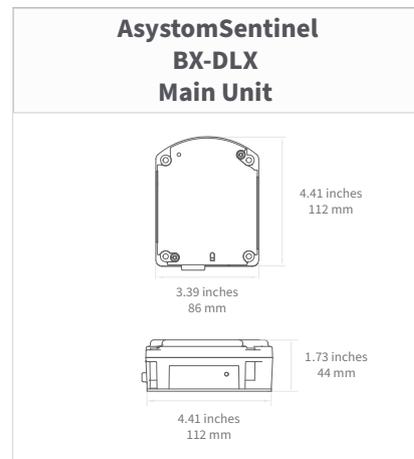


A unique, innovative and scalable technology to monitor industrial machines regardless of design or age, certified for zone 1 explosive gas atmosphere other than mines susceptible to firedamp.

A TURNKEY SOLUTION	<p>AsystemSentinel is an intelligent, multi-sensor device that captures and analyzes the signals from equipment and autonomously communicates the results to a secured, private cloud server via wireless LoRa (LongRange) network. It provides real-time status of each monitored equipment and alerts in case of anomalies. All the collected data are available from a visualization platform that can be consulted on all media. The AsystemSentinel device is managed remotely through the same visualization platform.</p>	
	<p>  +  +  +  </p> <p>AsystemSentinel device works on motors, pumps & valves Gateway Cloud Services Visualization platform</p>	

		SPECIFICATIONS
WEIGHT		1,10 lbs, 500 g (with battery)
MOUNTING		Very high bonding adhesive qualified by Asystem Other mounting option, contact us
SENSORS	Monitoring	<p>Vibration analysis: Typical Bandwidth: 1750 Hz Sampling rate: 4.5 kHz Full scale range: +/- 16g Typical RMS noise: 7 mg Nonlinearity: +/- 0.5 %</p> <p>Acoustic analysis: Typical Bandwidth: 70 kHz Sampling rate: 180 kHz (120 db SPL) Signal-to-Noise: 64.3 dB Total Harmonic Distortion: 0.20%</p> <p>Surface temperature: -20°C to + 80°C -68°F to + 176°F</p>
	Shock detection⁽¹⁾	Alarm threshold adjustable from 15g to 200g Precision 0,3 g (3-axis detection)
	Other sensors⁽¹⁾	Gyroscope
CONNECTIVITY		LoRa wireless network (Long Range) through AsystemLora gateway (gateway sold separately) or, as an option, via private or public LoRaWAN ⁽¹⁾
MEASUREMENT FREQUENCY		Measurement frequency adjustable from 1 minute Measurement can be set upon a wake up event
COMMUNICATION		Bidirectional between devices and server
POWER		4xAA lithium batteries up to 10 years autonomy.
ENVIRONMENT		<p>Operating temperature: Main Unit: -20°C to +58°C (-68°F to + 136°F) Extension Probe: -20°C to 80°C (-68°F to +176°F)</p> <p>Relative Humidity: Designed for outdoor use</p>
CASING		IP 66 and ATEX/IECEX



¹Additional option for AsystemSentinel device. Contact us for more information.

PRODUCT REFERENCE

PREDICTIVE DEVICE (ASYSTOMSENTINEL)

BX - DLX - 10x - xx

1 2 3

1	ASYSTOMSENTINEL INTELLIGENT DEVICE	DLX
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REGIONS	Model	LoRa Versions
Europe, MEA	0	EU868
North America	1	US915
Asia Pacific	2	AS923
Brazil	3	AU915
More	(2)	

SHOCK OPTION	AsystemSentinel without shock option	AsystemSentinel with shock option
Reference	00	01

ATEX / IECEx Marking
Ex ib mb IIC T4 Gb

CERTIFICATION

The marking on the product certifies that the product conforms to the following guidelines. A copy of the certificate can be provided upon request.



3V
0.3A max




Rated voltage and maximum current

Waste management (WEEE)

REFERENCE	DESCRIPTION
2011/65/EU	Restriction of hazardous substances (RoHS)
2012/19/EU	Waste of electrical & electronic (WEEE)
2014/30/EU	Electromagnetic compatibility (EMC)
2014/34/EU	Equipment and protective systems intended for use in potentially explosive atmospheres
2014/53/EU	Radio Equipment (RED)
ETSI CEI 61010-1	Safety rules for electrical measuring equipment, regulation and laborator

ATEX / IECEx Certificate
INERIS 20ATEX0056X IECEx INE 20.0067X

ADDITIONAL ASYSTOMSENTINEL MODELS

		STANDARD FEATURES	OPTIONAL FEATURES ⁽¹⁾
MODELS	BS-DLX (Indoor)	Vibration analysis Acoustic analysis Contact temperature Ambient humidity Ambient temperature	Extension probe
	BI-DLX (Outdoor)	Vibration analysis Acoustic analysis Contact temperature Battery life extension Extension probe	External Option : Current loop 0-24 mA - Input 0-3V Contact (On / Off) - Maximum 24V Temperature Probe PT100 Thermocouple JKTE External Power Supply

¹With extension probe, vibration, acoustic and contact temperature measurements are collected from the extension probe.

²Contact us for more information.