



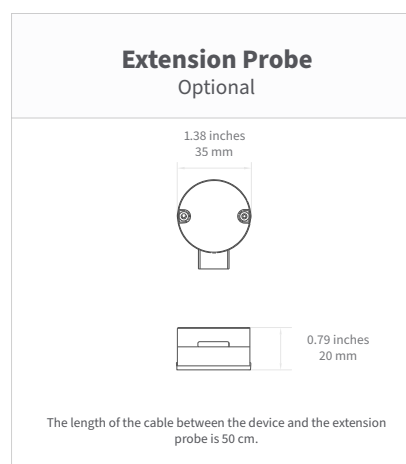


A unique, innovative and scalable technology to monitor industrial machines regardless of design or age.

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> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  AsystemSentinel device works on motors, pumps & valves </div> <div style="text-align: center;">  Gateway </div> <div style="text-align: center;">  Cloud Services </div> <div style="text-align: center;">  Visualization platform </div> </div>	
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SPECIFICATIONS	
WEIGHT	0,33 lbs, 150 g (with battery)
MOUNTING	Double sided adhesive qualified by Asystem Optional fixing by screw, epoxy or cable clamp
SENSORS	Monitoring Vibration analysis : Typical Bandwidth 1750 Hz Sampling rate : 4.5 kHz Full scale range +/- 16g Typical RMS noise : 7 mg Nonlinearity : +/- 0.5 % Acoustic analysis: Typical Bandwidth 70 kHz Sampling rate : 180 kHz (120 db SPL) Signal-to-Noise : 64.3 dB Total Harmonic Distortion : 0.20% Surface temperature : -40 °C to + 85 °C -104°F to + 136°F
	Shock detection⁽¹⁾ Alarm threshold adjustable from 15g to 200g. Precision 0.3 g (3-axis detection)
	Environmental sensors Ambient temperature : Accuracy ± 1°C (0 to 65°C) Ambient humidity : Accuracy ± 3% (20% to 80%) Pressure : Accuracy ± 1.0 hPa (300 to 1100 hPa)
	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	2xAA lithium batteries up to 5 years autonomy.
ENVIRONMENT	Working temperature : Device : -40°C to +58°C (-68°F to + 136°F) Extension Probe : -40°C to 85°C (-68°F to +176°F) Relative Humidity : 5% to 95% non-condensing
CASING	Indoor use



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

PRODUCT REFERENCE

PREDICTIVE DEVICE (ASYSTOMSENTINEL)

BS - DLX - X0X - XX
 1 2 3 4

1	ASYSTOMSENTINEL INTELLIGENT DEVICE	DLX
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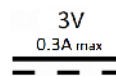
2	MODELS	AsystemSentinel	AsystemSentinel with extension probe ⁽¹⁾
	Reference	0	1

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

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

CE & FCC 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.



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)
2014/53/EU	Radio Equipment (RED)
ETSI CEI 61010-1	Safety rules for electrical measuring equipment, regulation and laborator

ADDITIONAL ASYSTEMSENTINEL MODELS

		STANDARD FEATURES	OPTIONAL FEATURES ⁽¹⁾
MODELS	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
	BX-DLX (Ex)	Vibration analysis Acoustic analysis Contact temperature Battery life extension Extension probe	

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

² Contact us for more information.