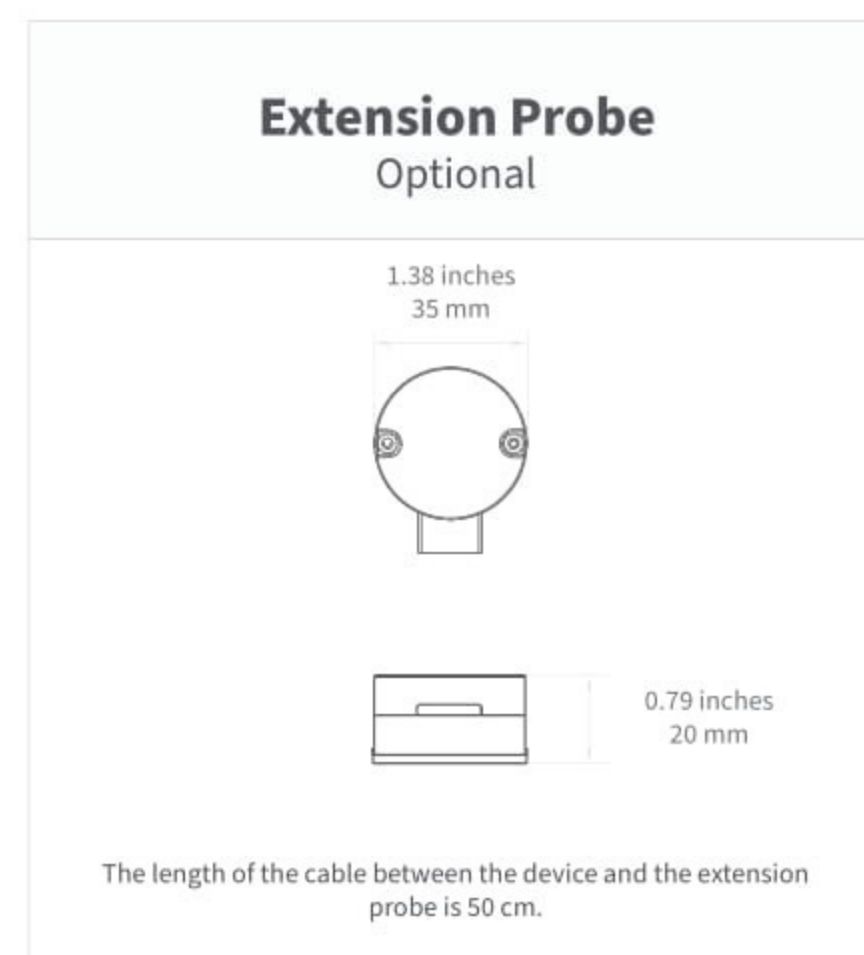


## A unique, innovative and scalable technology to monitor industrial machines regardless of design or age.

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>	
	 <p>AsystemSentinel device works on motors, pumps &amp; valves + Gateway + Cloud Services + Visualization platform</p>	

SPECIFICATIONS	
<b>WEIGHT</b>	0,33 lbs, 150 g (with battery)
<b>MOUNTING</b>	Double sided adhesive qualified by Asystem Optional fixing by screw, epoxy or cable clamp
<b>SENSORS</b>	<p>Monitoring</p> <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 :                      -40 °C to + 85 °C                      -104°F to + 136°F</p>
	<p>Shock detection<sup>(1)</sup></p> <p>Alarm threshold adjustable from 15g to 200g.                      Precision 0.3 g (3-axis detection)</p>
	<p>Environmental sensors</p> <p>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)</p>
	<p>Other sensors<sup>(1)</sup></p> <p>Gyroscope</p>
<b>CONNECTIVITY</b>	LoRa wireless network (Long Range) through AsystemLora gateway (gateway sold separately) or, as an option, via private or public LoRaWAN <sup>(1)</sup>
<b>MEASUREMENT FREQUENCY</b>	Measurement frequency adjustable from 1 minute Measurement can be set upon a wake up event
<b>COMMUNICATION</b>	Bidirectional between devices and server
<b>POWER</b>	2xAA lithium batteries up to 5 years autonomy.
<b>ENVIRONMENT</b>	<p>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)</p> <p>Relative Humidity :                      5% to 95% non-condensing</p>
<b>CASING</b>	Indoor use



<sup>1</sup>Additional option for AsystemSentinel device. Contact us for more information.

## PRODUCT REFERENCE

PREDICTIVE DEVICE (ASYSTOMSENTINEL)

**BS - DLX - x0x - xx**

1                      2                      3                      4

<b>1</b>	<b>ASYSTOMSENTINEL INTELLIGENT DEVICE</b>	DLX
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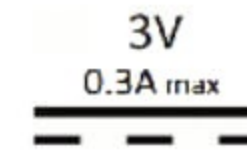
<b>MODELS</b>	AsystemSentinel	AsystemSentinel with extension probe <sup>(1)</sup>
Reference	0	1

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

<b>SHOCK OPTION</b>	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 ASYSTOMSENTINEL MODELS

		STANDARD FEATURES	OPTIONAL FEATURES <sup>(1)</sup>
<b>MODELS</b>	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 (  )	Vibration analysis Acoustic analysis Contact temperature Battery life extension Extension probe	

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

<sup>2</sup>Contact us for more information.