




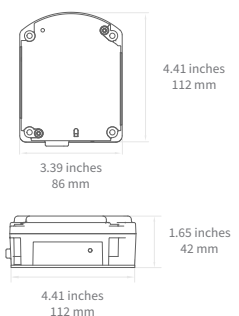


## A unique, innovative and scalable technology to monitor industrial machines regardless of design or age.

<b>A TURNKEY SOLUTION</b>	<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 &amp; 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	
<b>WEIGHT</b>	0,55 lbs, 250g (with battery)
<b>MOUNTING</b>	Double sided adhesive qualified by Asystem Optional fixing by epoxy or cable clamp
<b>SENSORS</b>	<b>Monitoring</b> 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
	<b>Shock detection<sup>(1)</sup></b> Alarm threshold adjustable from 15g to 200g. Precision 0.3 g (3-axis detection)
	<b>External Sensor (Option)</b> Current input 4-20 mA (max. 0-30 mA) - Input 0-3V Contact (On / Off) - Maximum 24V Temperature Probe PT100 Thermocouple JKTE
	<b>Other sensors<sup>(1)</sup></b> Gyroscope
<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>	4xAA lithium batteries up to 10 years autonomy.
<b>ENVIRONMENT</b>	Working teperature : 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
<b>CASING</b>	IP 66

### AsystemSentinel BI-DLX



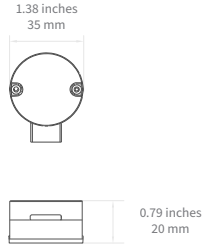
4.41 inches  
112 mm

3.39 inches  
86 mm

1.65 inches  
42 mm

4.41 inches  
112 mm

### Extension Probe



1.38 inches  
35 mm

0.79 inches  
20 mm

The length of the cable between the device and the extension probe is 50 cm.

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

## PRODUCT REFERENCE

PREDICTIVE DEVICE (ASYSTOMSENTINEL)

**BI - DLX - 1xx - xx**  
 1                      2 3                      4

<b>1</b>	<b>ASYSTOMSENTINEL INTELLIGENT DEVICE</b>	DLX
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ADDITIONAL VERSIONS <sup>(1)</sup>				
Reference	Thermocouple sensor	Platinum probe	Dry contact	Current loop 4-20 mA or Voltage 0-3 V
1				
2				
3				
4				
5				
6				

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

<b>4</b>	<b>SHOCK OPTION</b>	AsystemSentinel without shock option	AsystemSentinel with shock option
	Reference	00	01

### ADDITIONAL ASYSTEMSENTINEL MODELS

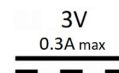
		STANDARD FEATURES	OPTIONAL FEATURES <sup>(1)</sup>
<b>MODELS</b>	BS-DLX (Indoor)	Vibration analysis Acoustic analysis Contact temperature Ambient humidity Ambient temperature	Extension probe
	BX-DLX (Ex)	Vibration analysis Acoustic analysis Contact temperature Battery life extension Extension probe	

<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.

## 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