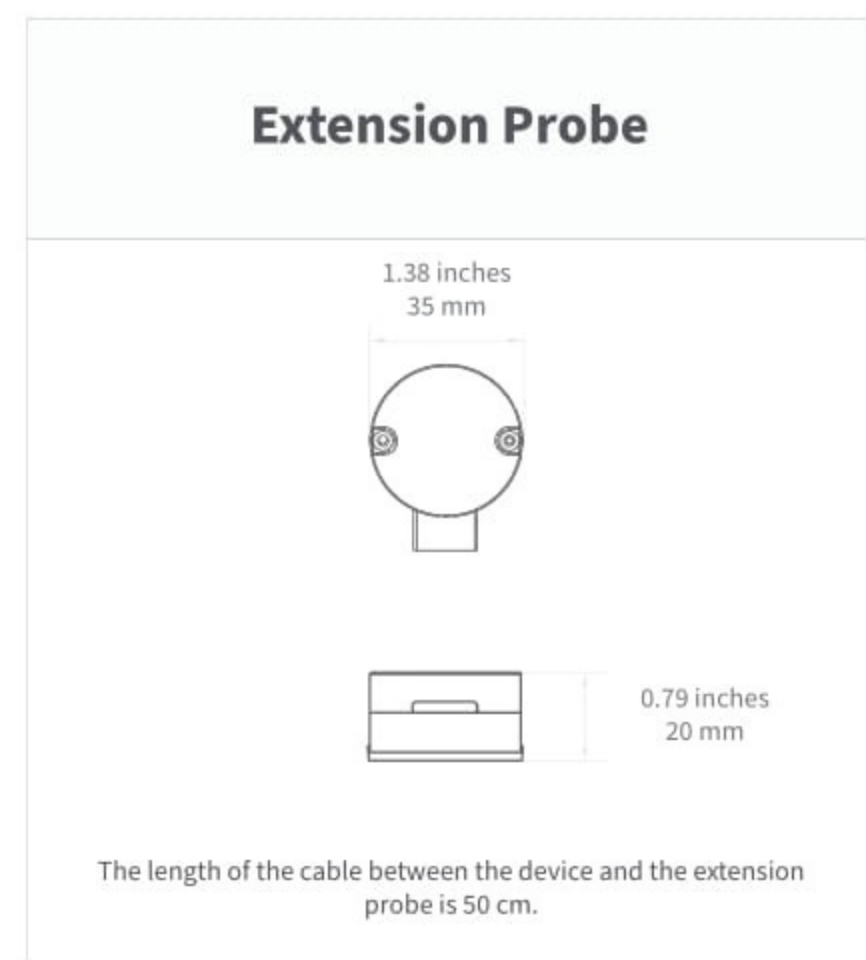
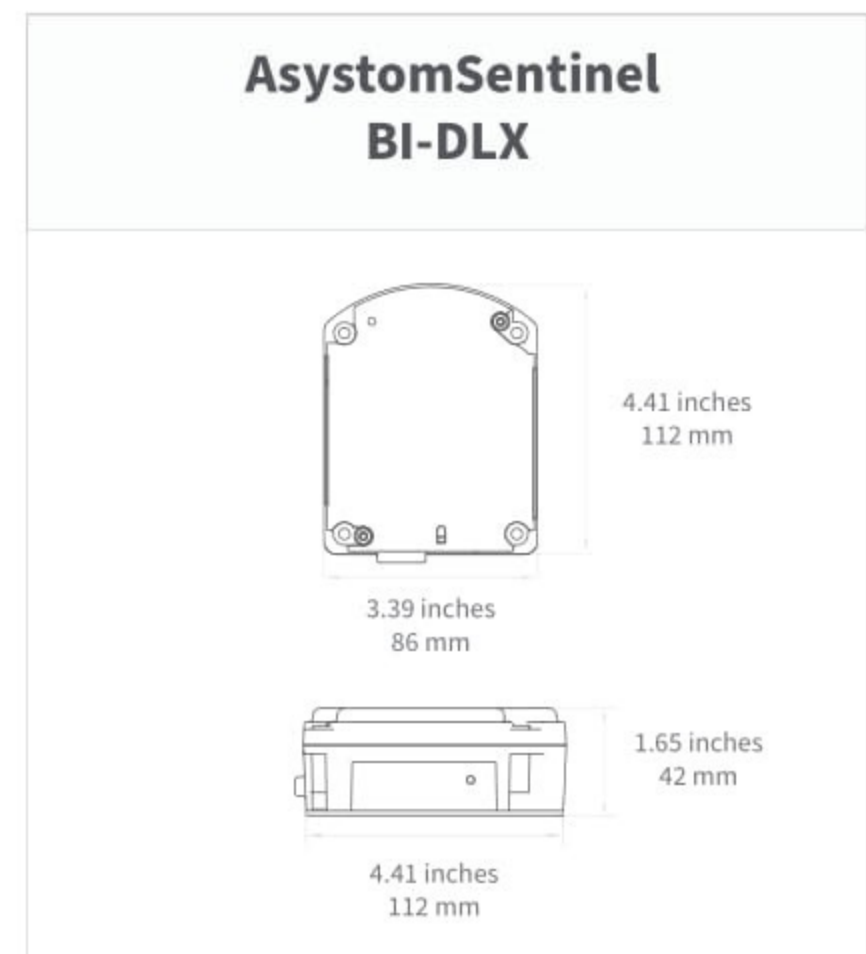


A unique, innovative and scalable technology to monitor industrial machines regardless of design or age.

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

SPECIFICATIONS	
WEIGHT	250g (with battery)
MOUNTING	Double sided adhesive qualified by Asystem Optional fixing by 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
	Shock detection⁽¹⁾ Alarm threshold adjustable from 15g to 200g. Precision 0.3 g (3-axis detection)
	External Sensor (Option) Current input 4-20 mA (max. 0-30 mA) - Input 0-3V Contact (On / Off) - Maximum 24V Temperature Probe PT100 Thermocouple JKTE
	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 8 years autonomy.
ENVIRONMENT	Working temperature : Device : -40°C to +58°C Extension Probe : -40°C to 85°C Relative Humidity : 5% to 95% non-condensing
CASING	IP 66



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

PRODUCT REFERENCE

PREDICTIVE DEVICE (ASYSTOMSENTINEL)

BI - DLX - 1XX - XX

1 2 3 4

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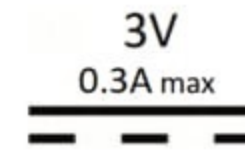
ADDITIONAL VERSIONS ⁽¹⁾				
Reference	Thermocouple sensor	Platinum probe	Dry contact	Current loop 4-20 mA or Voltage 0-3 V
1				
2				
3				
4				
5				
6				

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

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 ASYSTOMSENTINEL MODELS

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

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

²Contact us for more information.