



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

A TURNKEY SOLUTION

AsystomSentinel 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 AsystomSentinel device is managed remotely through the same visualization platform.



works on motors, pumps &





Services





platform



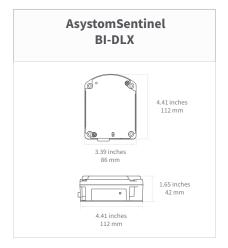
	val	valves	
		SPECIFICATIONS	
WEIGHT		1.10 lbs, 500g (with battery)	
MOUNTING		Very high bonding adhesive qualified by Asystom Other mounting option, contact us	
SENSORS	Monitoring	Vibration analysis:  Typical Bandwidth 2Hz to 1750 Hz  Sampling rate: 4.5 kHz  Full scale range +/- 16g  Typical RMS noise: 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 +80 °C  -40°F to + 176°F  Ambient temperature: 0 to 58°C.	
	AsystomAdvisor applicability	Rotating machines from 300 RPM. For other use cases contact us.	
	External Sensor (Option)	Current input 4-20 mA (max. 0-30 mA) - Input 0-3V Wet Contact (On / Off) - Maximum 24V	
	Other sensors <sup>(1)</sup>	Contact us for other sensor integration on project basis (temperature probe or other).	
CONNECTIVITY		LoRa wireless network (Long Range) via private or public LoRaWAN	
MEASUREMENTS		Statistical (RMS, Peak, Kurtosis) or Frequency domain (FFT Zoom) Periodicity adjustable down to 1 minute in good radio condition. Measurement can be set upon a wake up event	
COMMUNICATION		Bidirectional between devices and server	
POWER		4xAA lithium batteries up to 10 years autonomy. (typical at 1 measurement per hour)	

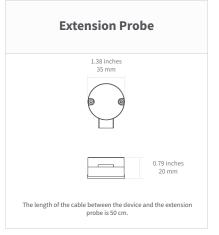
Working tempeature:

Relative Humidity: Designed for outdoor use

IP 66

Device: -40°C to +58°C (-40°F to + 136°F) Extension Probe: -40°C to 80°C (-40°F to +176°F)





**CASING** 

**ENVIRONMENT** 



### PRODUCT REFERENCE

## PREDICTIVE DEVICE (ASYSTOMSENTINEL)

# BI-DLX-1xx-00

#### LORA VERSIONS BY REGIONS Region Ref. Model 0 EU868 Europe, MEA US915 North America 1 2 AS923 Asia Pacific AU915 Brazil 3 (2) Other ADDITIONAL VERSIONS(1) Current loop 4-20 mA or Voltage 0-3 V Wet contact ASYSTOMSENTINEL INTELLIGENT

### ADDITIONAL ASYSTOMSENTINEL MODELS **STANDARD FEATURES** Vibration analysis Acoustic analysis BS-DLX Contact temperature (on-project Ambient humidity basis) Ambient temperature MODELS Vibration analysis Acoustic analysis **BX-DLX** Contact temperature $(\langle \epsilon_x \rangle)$ Battery life extension Extension probe

**DEVICE** 

# **CERTIFICATIONS**

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

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

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

⊕ Infos on :