
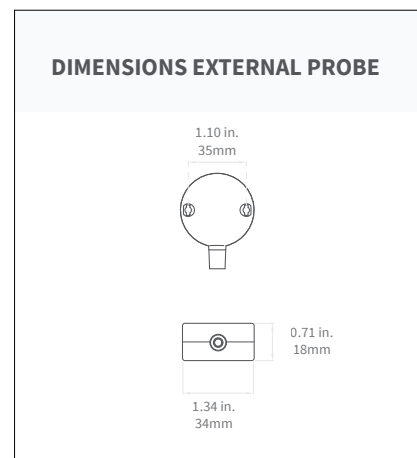
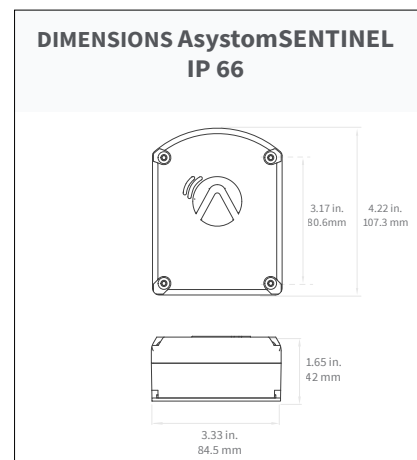
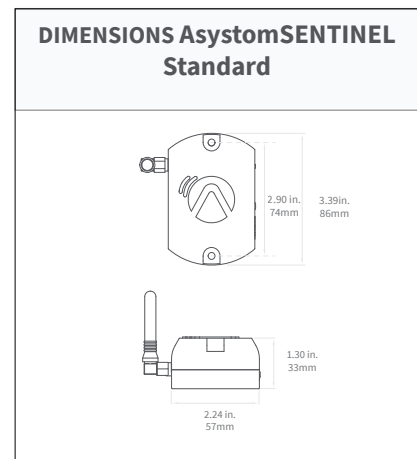


A unique, innovative and scalable technology to monitor industrial machines of regardless of design or age.

A TURNKEY SOLUTION	<p>AsystemSENTINEL is an intelligent, multi-sensors device that captures and analyses the signals from equipment and autonomously communicates the results to a secured, private cloud server via wireless LoRa (LongRange) network. It provides statuses of each monitored equipment and alerts in case of anomalies. All the collected data are available from a web platform that can be consulted on all media.systemSentinel is managed remotely through the same web application.</p>	 <p>AsystemSENTINEL's Beacons for your industrial equipments motors, valves...</p> <p>Gateway Cloud Services Visualisation platform</p>
--------------------	---	---

SPÉCIFICATIONS	
WEIGHT	150g (with battery)
FIXATION	Semi-permanent or permanent. Fixing by screw, epoxy or cable clamp
SENSORS	Monitoring Vibration analysis with sampling rate: 4 kHz (+/- 16 g) Acoustic analysis with sampling rate: 180 kHz (-120 db SPL) Surface temperature (-40 °C to + 85 °C)
	Shock detection Alarm threshold adjustable from 15g to 200g. Precision 0.3 g (3-axis detection) ⁽¹⁾ .
	Environmental sensors Ambient temperature: 0 to 65°C . Ambient humidity (20% to 80%): Accuracy ± 3% Pressure (300 to 1100 hPa): Accuracy ± 1.0 hPa
	External Sensors (Option) Current input 0-20 mA - Voltage input 0-3V Contact (On / Off) - Maximum voltage 24V Temperature Probe : PT100 Thermocouple JKTE
	Other sensors Gyroscope ⁽²⁾
CONNECTIVITY	LoRa wireless network (Long Range) either as a private network (wireless gateway sold separately) or, as option, via national or private operators. Bluetooth Low Energy 4.x(A) ⁽³⁾
COMMUNICATION	Bidirectionnal between beacons and server
POWER	2xAA batteries provide a range of up to 5 years. Power supply option (5 to 12 volts DC)
WORKING TEMPERATURE	-40°C to +58.°C External Sensor -40°C to 85°C
RELATIVE HUMIDITY	5% to 95% non-condensing
Default measurement frequency set at 1 measurement / hour, adjustable: minimum 1 measurement / minute.	



¹Shock detection is an additional option for AsystemSENTINEL Beacon. Contact us for more information.
²Gyroscope is an additional option for AsystemSENTINEL Beacon. Contact us for more information.
³Bluetooth Low Energy 4.x is an additional option for AsystemSENTINEL Beacon. Contact us for more information.

REFERENCE PRODUCT

PREDICTIVE BEACON (ASYSTOMSENTINEL)

BX - **DLX** - **XXX** - **XX**

1 2 3 4 5 6

1	TYPE OF CASING	Standard	IP66 ⁽¹⁾	ATEX ⁽¹⁾
	Reference	S	I	X

2	ASYSTOMSENTINEL CASING INTELLIGENT	DLX
	Reference	

3	MODELS	AsystemSentinel without external probe	AsystemSentinel with external probe ⁽²⁾
	Reference	0	1

ADDITIONNIONAL VERSIONS ⁽³⁾				
Reference	Thermocouple sensor	Platinum probe	Dry contact	Current loop 4-20 mA (0-30 mA) or Voltage 0- 3V
1	X			
2				X
3			X	
4		X		
5	X			X
6	X		X	

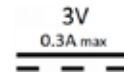
5	LoRa VERSIONS	Europe	US / Canada	Autres
	Reference	0	1	(4)

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

CE CERTIFICATION

REFERENCE	DESCRIPTION
2011/65/EU	Restriction of hazardous substances (RoHS)
2012/19/EU	Waste of electrical & electronic eq. (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 laboratory

The CE 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)

A NON EXHAUSTIVE LIST OF OFFER...

		BASE	BASE + EXTERNAL PROBE	FEATURES ⁽⁵⁾
MODELS	Standard	BS-DLX-00x-xx		Vibration analysis Acoustic analysis Shock detection
			BS-DLX-10x-xx	
	IP66 Model		BI-DLX-10x-xx	
	Boitier ATEX		BX-DLX-00x-xx	Contact us for more information

¹AsystemSENTINEL IP66 or ATEX beacons are only sold with the external probe.

²The external probe measures vibration, sound, ultrasound and temperature.

³To choose these options, please contact your technical service pour validate it uses

⁴Contact us for more information.

⁵For the AsystemSENTINEL's use case with external probe, vibratory measurements, acoustic and surface temperature are reported in the external probe.