ASL
Steady sensor

DESCRIPTION

Autonomous sensor equipped with MEMS sensors measuring accelerations on 3 axes and transmitting the minimum, average and maximum values over 20 minutes (typically).

Combined together, they allow to track movements and impacts on a structure or an object.

Each sensor is autonomous; it does not need another box or a sending station

APPLICATIONS

Monitoring for buildings, monuments, bridges, engineering structures

SENSOR CHARACTERISTICS

DATA RECORDING

Local measurement interval	1 second (via Bluetooth application)
Data reporting interval	20 minutes (configurable)
Reported data	Average accelerations(X, Y, Z) Maximum accelerations(X, Y, Z) Case temperature Battery voltage

MOTION PROBE

Measurement principle	Mems
Measuring range	1-500Hz
Resolution	<0.2mg
Repeatability	±4mg

TEMPERATURE SENSOR INSIDE THE HOUSING

Measuring principle	NTC
Measuring range	-55 ... +125°C
Resolution	0,6°C (-5 ... +50°C)

LONG DISTANCE RADIO

Radio technology	LoRaWAN
Security	AES-128 data encryption
Supported features	LoRa private or operated, OTAA
Radio range	Up to 15 km
Transmitted power	Up to 20 dBm (adaptive)
Receiver sensitivity	-142 dBm
Frequency band	868 MHz (EU), 915MHz (US, AS, AU)
Antenna	Internal or external to the housing

LOCAL RADIO

Radio technology	Bluetooth Low Energy
Radio range	Up to40m
Transmitted power	Up to 4 dBm
Receiver sensitivity	-96 dBm
Frequency band	2.4 GHz ISM
Antenna	Internal to the box

POWER SUPPLY

Battery type	Lithium-Ion	
Power consumption	< 25mW	
Battery life *	Measurement period	Duration (up to)
	20 minutes	1 year

* Indicative duration, for use in the conditions of use

SENSOR

Operating temperature	-30 ... +85°C
Dimension	120 x 160 x 90 mm
Weight	280g
Internal memory	1024 measurements
Case	Polycarbonate (weather, UV and impact resistant)
	Decompressor against condensation
	IP65, IK07
	Fixing brackets

ORDER REFERENCES

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Other options: contact us

WARNINGS

Specifications and information in this document are subject to change without notice.

A3IP products are not warranted or licensed for use as a critical component for medical or other life-saving or life-sustaining applications, or other applications where failure could reasonably be expected to cause serious injury, death, or damage to any structure, work or building.

In addition, devices are indications and decision aids and cannot be used in alarm or critical applications.

CONTACT

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