

ApL Piezometric level



DESCRIPTION

Autonomous sensor with piezometric sensors that can measure small variations in liquid level.

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

APPLICATIONS

Monitoring in buildings, tunnels or other elements with water presence.

SENSOR CHARACTERISTICS

DATA RECORDING

Local measurement interval

Data reporting interval

Reported data

Liquid level (1 à 3)

Case temperature

Battery voltage

LIQUID LEVEL SENSOR

Measurement principlePiezometricMeasuring range0 ... 5mResolution±1mmRepeatability±2.5cm (5m cable)Operating temperature-20 ... +80°C

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 to 40m
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-lon	
Power consumption	< 1mW	
Battery life *	Measurement period	Duration (up to)
	30 minutes	5 years
	1 hour	10 years

SENSOR

Operating temperature	-30 +85°C
Dimension	135 x 135 x 60 mm
Weight	350g
Internal memory	1024 measurements
Case	Polycarbonate (weather, UV and impact resistant)
	Decompressor against condensation
	IP65, IK07
	Fixing brackets

^{*} Indicative durations, for a use in the conditions of use and according to the number of connected sensors, their characteristics and their validation by our research department

ORDER REFERENCES

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APL-01	piezometer with 1 probe (5m cable length)
APL-02	piezometer with 2 probes (5m cable length)
APL-03	piezometer with 3 probes (5m cable length)

 $Other\ options: contact\ us$

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.

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