

# **ARL**t Pavement temperature



# **DESCRIPTION**

Autonomous sensor for continuous measurement of the temperature of the roadway's modules.

Each sensor is autonomous; it doesn't need another box nor a sending station

# **APPLICATIONS**

Predictive maintenance of road behavior.

Temperature monitoring on several strata

## **SENSOR CHARACTERISTICS**

## **DATA RECORDING**

Local measurement interval 1 second (via Bluetooth application)

Data reporting interval 20 minutes (configurable)

Reported data Pavement module temperature

Battery voltage

## **TEMPERATURE PROBES**

Measurement principle

Measuring range

-40 ... +125°C

Resolution

±0,0625°C

Repeatability

±0,25°C from -40°C to +125°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)
	20 minutes	8 years (non rechargeable)

## **SENSOR**

Operating temperature	-40 +70°C
Dimension	295 x 80 x 80 mm
Weight	2300g
Internal memory	1024 measurements
Case	PVC
	IP68

 $<sup>^{\</sup>star}$  Indicative duration, for use in the conditions of use

# **ORDER REFERENCES**

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ARLt ARLt-50

temperature sensor, height 25cm temperature sensor, height 50cm

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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