

# Temperature & GPS Monitor



## Refrigerated Transport Temperature & GPS Sensor

The KoolZone refrigerated transportation monitor works with the KoolZone platform to provide both temperature and GPS location monitoring.

The temperature sensor can measure in the range  $-55^{\circ}\text{C}$  to  $125^{\circ}\text{C}$  with an accuracy of  $\pm 0.5^{\circ}\text{C}$  and is supplied with a GPS antenna for vehicle mounting. The GPS location system in the KoolZone platform records the location of the vehicle along with the temperature.

The temperature monitor is designed for in-vehicle installation and maintains an onboard log of readings that are automatically retrieved in case of temporary loss of cellular service.

## Calibration

Different levels of calibration are available, the manufacturers' calibration certification, UKAS calibration, and reference calibration at specific temperature points carried out by KoolZone.



**GPS Positioning**



**Accuracy  $\pm 0.5^{\circ}\text{C}$**



**1 Hour Battery Back Up**



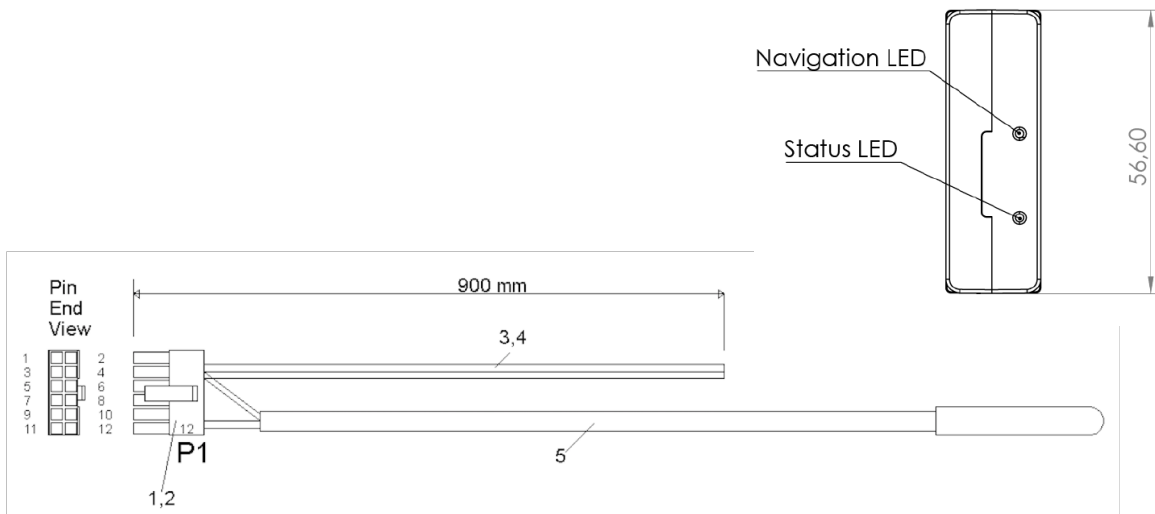
**Cellular Connection**



**Data Logging**

## Technical Specification

Power input:	(+10...+30) V DC, draws 36mA on average in normal use
Measurement Range	-55 ° C to +125 ° C temperature range
Temperature Accuracy	± 0.5 ° C accuracy from -10 ° C to +85 ° C , ± 2 ° C accuracy from -55 ° C to +125 °
Temperature Probe	Waterproof DS18B20 with 5m cable length
Dimensions	65mm x 56.6mm
Battery Type	Li-ion battery
Battery Life	3.6 Volt lithium battery provides approximately 1 hour of backup
Connectors:	GNSS antenna, micro USB, 2x6 connection pins, Li-ion battery
Antenna	The GPS antenna is supplied on a 3m long cable and connects directly onto the SMA connector



### Note

Monitored data and alarms are visible through KoolZone's sophisticated monitoring platform running on iOS or Android phone, iPad, tablet or laptop. Alert notifications can be sent by text, email, or phone.

This sensor probe is not suitable for direct long-term immersion in liquids or corrosive environments. An alternative KoolZone sensor probe is available for liquid immersion, including dishwashers.

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