



# LOG86-001

Temperature Sensor

## Temperature sensor

- Measuring range: -40°C... +70°C
- Accuracy:  $\pm 0.3^{\circ}\text{C}$

Certification: CE

## Description

The LOG86-001 is a temperature sensor that can be used in 2 modes:

- **Monitoring** (real-time monitoring applications ): the data recorder data sends its measurements in real time to a PC or a gateway. If a measurement is not received, it stores it in its internal memory and sends it to the receiver when next transmission
- **Recording** (delayed data transmission): the data logger records the measurements it takes in its on-board memory. The user can download all the stored measurements to the PC at any time, by sending a command by radio.

It is also equipped with:

- IP65 housing
- $\frac{1}{2}$  wave antenna (up to 900 meters range)
- Power supply battery A (Lithium Thionyl)

# Specifications

<b>LOG86</b>	
<b>Type</b>	High Temperature Precision
<b>Sensor</b>	Internal sensor
<b>Measuring range</b>	-40°C...+70°C
<b>Resolution</b>	@12 bits (0.1°C)
<b>accuracy</b>	± 0.3°C [-30°C...+70°C] ± 1°C [-40°C...-30°C]
<b>Response time</b>	≤10 min
<b>Sensor drift</b>	Excellent long-term stability
<b>Battery</b>	Lithium Thionyl with JST connector
<b>Autonomy (25°C)</b>	Up to 5 years at 25°C on a frequency of 10 min
<b>RF connector</b>	SMA connector
<b>Antenna</b>	½ wave antenna
<b>Radio range</b>	Up to 900 meters

<b>LED</b>	1 LED bicolore
<b>Memory capacity</b>	32,256 time-stamped measurements
<b>Resolution Time</b>	1s
<b>Internal clock drift</b>	+/- 2min/month @25°C
<b>Backup Time</b>	Time retained as long as the product is powered by the battery Time kept for 3 min if the battery is removed (if battery level = 3.6V) Time retained for 1 min if the battery is removed (if battery level = 2.2V) Hour lost if battery is less than 2V
<b>Flash memory lifespan</b>	Up to 100,000 cycles
<b>ILS</b>	Integrated ILS for several functions: - Wake up the product in hibernation mode - Taking a measurement outside the measurement frequency

Specifications:

- Plastic housing
- 2 integrated holes for mounting on a wall or inside a package
- Flange cover included without antenna

<b>Dimensions (without antenna)</b>	Length	115 mm
	Width	58 mm
	Height	40 mm
<b>Weight</b>	130 g	
<b>Product Identifications</b>	2 stickers on the product: - 1 on the upper side (giving the product range) - 1 on the side (giving the reference and serial number of the product)	

## Models and accessories

PFPN-LOG86-001	logger IP65
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