



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

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

LED	1 LED bicolore
Memory capacity	32,256 time-stamped measurements
Resolution Time	1s
Internal clock drift	+/- 2min/month @25°C
Backup Time	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
Flash memory lifespan	Up to 100,000 cycles
ILS	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

Dimensions (without antenna)	Length	115 mm
	Width	58 mm
	Height	40 mm
Weight	130 g	
Product Identifications	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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