LGR64-001

Temperature Sensor

Measurement range (Temperature) : -40°C ... +85°C
Accuracy (Temperature): ±0.2°C
Range (Humidity): 0...100% (Humidity)
Accuracy (Humidity): ±1.8
Certification : CE

Description

The LGR-64 is a temperature and humidity sensor with two operating modes:
Monitoring (real-time monitoring applications): the logger sends its measurements to the PC in real time. If a measurement is not received by the PC, it stores it in its internal memory and sends it to the PC on the next communication channel.
Recording / Playback (post-monitoring): the recorder records the measurements it takes in its internal memory. The user can download all the stored measurements to the PC at any time.
It is also equipped with :
IP65 enclosure (Aluminium)
½ wave antenna
Power supply AA battery (Lithium Thionyl)

Specifications

LGR64	
Temperature measurement range	-40°C... +85°C
Relative humidity Measurement range	0... 100%RH The maximum dew point is brought down to 80°C Dew formation resistant
Accuracy	See below
Resolution	Humidity : 0.03%RH Temp. : 0.015°C
Response time	< 10s For temperature and humidity
Long term drift	Humidity : <0.5%RH / year Temp. : <0.05k / year
IP	IP65, sensor excepted The level of tightness of the product is valid only if the probe and antenna are properly tightened (seals crushed)

Battery	AA Lithium Thionyl (included) with plug-in connector
Autonomy at 25°C	Up to 3 years At 25°C with a frequency measures of 10 minutes. Average value which can slightly vary depending on the use. It is given with the product working in non alort mode.

Antenna RF connector	SMA connector
Antenna	½ Wave antenna (included)
RF range in free land	100m to 1km, depending on the antenna used on the reception side
Memory Capacity	32 256 measurements with date and time
Time resolution	1s
Time deviation	+/- 2min/month at 25°C
Data memory retention	100 years
ILS	ILS integrated for several functions : - Wakeup of the product in hibernate mode - Take of a measure outside of the frequency measure set