Temperature and humidity digital probe

Digital Sensor Evolution X²

A drift managed

for a better monitoring of your equipments

Non contractual picture

Presentation

The Digital Sensor Evolution X² temperature and humidity probe is a digital sensor with very low drift over time. It has an internal memory storing its calibration coefficients. Interchangeable, it can be calibrated simply by exchanging it, or using the JRI MySirius Calibration module, without interrupting equipment monitoring. Data from metrological operations are automatically fed back into JRI software.

This digital probe is designed for X2 modelling and is compatible with LoRa SPY Digital, Nano SPY Digital and SPY recorders with the following firmware versions : SPY RF N : ≥ v1.64.

Stainless steel filter to be used in corrosive environments

Technical features

Measurement range	From -30 to +70°C ; 0 to100% RH non condensing
Accuracy	±0,3°C from 0°C to+70°C and ±0,5°C outside See MPE table on right
Resolution	0.01
Type of sensor	Digital - internal PTFE filter
Type of connector	Detachable (direct or with extension lead)
Protection of connector	IP 40
Points for a standard calibration certificate	+10°C, +25°C, +45°C, +60°C 20%, 40%, 60%, 80% HR à +23°C
Points of gauging	+10°C, +25°C, +45°C, +60°C 20%, 40%, 60%, 80% HR à +23°C
Part nrs	12347 4 for LoRa SPY Digital and Nano SPY Digital Option : 11197 Stainless steel filter

MPE of humidity sensor depending on temperature (% HR)

TEMPERATURE

RELATIVE HUMIDTY (%RH)	15	20	23 ±1°C	30	35	40
0	±6	±5	±4	±5	±5	±6
10	±4	±4	±4	±5	±5	±5
20	±3	±3	±2	±4	±4	±4
30	±3	±3	±2	±4	±4	±4
40	±3	±2	±2	±3	±4	±4
50	±3	±2	±2	±3	±3	±4
60	±3	±2	±2	±3	±4	±4
70	±3	±3	±2	±4	±4	±4
80	±3	±3	±2	±4	±4	±4
90	±4	±4	±4	±5	±5	±5
100	±5	±5	±4	±5	±5	±6

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