



DIGITAL TEMPERATURE AND HUMIDITY SENSOR

Perfectly suited to monitoring humid environments: storage areas, climatic chambers, culture chambers.... Interchangeability, thanks to metrological information stored in internal memory.



Non contractual picture

Ref. 12347 5

Presentation

Green Digital Sensor temperature probes are digital sensors with an internal memory that stores calibration coefficients. Calibration can therefore be carried out by simple exchange or using the JRI MySirius Calibration module, without interrupting equipment monitoring. Optimized for modeling errors with second-degree functions (X^2). They feature a thin cable to allow passage through the door seal.

This digital probe is compatible with Nova SPY Digital, LoRa SPY Digital and Nano SPY Digital loggers.

Technical features

Sensor dimension	Ø11 x 66,3 mm
Sensor protection	IP 68
Type of connector	Digital - PTFE internal filter
Connector	plug-in - IP 40
Measurement range	from -30 à +70°C ; de 0 to 100% HR non-condensed
Accuracy	±0.3°C from 0° to +50°C and ±0.5°C outside See EMT table opposite
Resolution	±0,01°C
Compound uncertainty	between 0,15°C and 0,40°C from 0,3%HR and 1,6%HR
Standard COFRAC calibration points	T°C chain : +10°C, +15°C, +23°C, +30°C
Standard calibration points	T°C chain : +10°C, +25°C, +45°C, +60°C HR% chain : +20%, +40%, +60%, +80%HR
Compatibility	MySirius from version 4.4 SPY RF N from version 1.63 LoRa SPY D (Part nbr. 11809 et 12276) Nano SPY D (Part nbr. 13491) Nova SPY D (Part nbr. 13756) 3m extension cable for Green Digital Sensor (Part nbr. 13870) 12m extension cable for Green Digital Sensor (Part nbr. 13871)

EMT of humidity sensor as a function of temperature (in % RH)

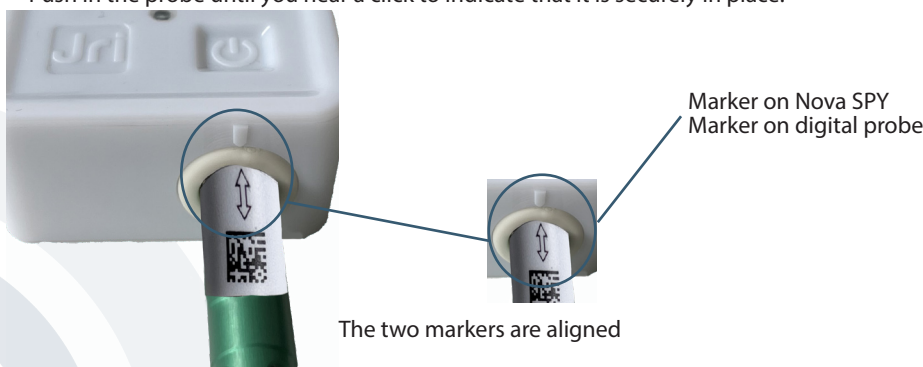
HUMIDITE RELATIVE (%HR)	TEMPERATURE (°C)					
	15	20	23±1°C	30	35	40
0	±6	±5	±4	±5	±5	±6
10	±4	±4	±4	±5	±5	±5
20	±3	±3	±2	±4	±4	±4
30	±3	±3	±2	±4	±4	±4
40	±3	±2	±2	±3	±4	±4
50	±3	±2	±2	±3	±3	±4
60	±3	±2	±2	±3	±4	±4
70	±3	±3	±2	±4	±4	±4
80	±3	±3	±2	±4	±4	±4
90	±4	±4	±4	±5	±5	±5
100	±5	±5	±4	±5	±5	±6

Benefits

- **Low drift**
Ensures reliable long-term measurements ($\leq 0.1^\circ\text{C}$) after one year's use.
- **Easy interchangeability**
- **Reduced maintenance costs**
- **Optimization of calibration processes**

Connection diagram to insert the probe

- Align the mark on the probe with the mark on the Nova SPY Digital.
- Push in the probe until you hear a click to indicate that it is securely in place.



Accessoires

