



Temperature Digital Probe

Digital Sensor Evolution

A drift managed
for a better monitoring of your equipments



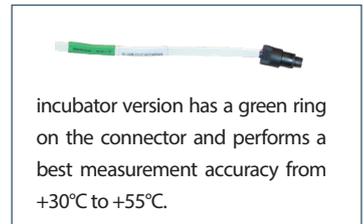
Non-contractual picture

Presentation

The temperature Digital Sensor Evolution is a standardized (CEI751) class A PT100 sensor. It is experiencing a very low drift (type $\leq 0.1^\circ\text{C}$) after one year of use and has an internal memory storing calibration coefficients. It is interchangeable and allows the realization of calibration by simple exchange without monitoring interruption. Data from a metrological transaction is automatically integrated in the JRI software.

The Digital Sensor Evolution (5th generation) is compatible with the LoRa® SPY Digital recorder and with the SPY range recorders whose firmware versions are following :

SPY RF N : \geq than v1.63 - SPY IP : \geq than v1.25 - SPY TOUCH N : \geq than v2.9.5.



incubator version has a green ring on the connector and performs a best measurement accuracy from $+30^\circ\text{C}$ to $+55^\circ\text{C}$.

Technical features

Part nr.	STANDARD MODELS			INCUBATOR MODELS
	12350	12349	12348	12350 I 12349 I
Temperature range	from -40 to $+80^\circ\text{C}$			from $+30$ to $+55^\circ\text{C}$
Measurement accuracy	$\pm 0,3^\circ\text{C}$ from -40 to $+40^\circ\text{C}$ and $\pm 0,5^\circ\text{C}$ out of this range			$\pm 0,2^\circ\text{C}$ from $+30$ to $+55^\circ\text{C}$
Dimensions & protection of sensor	$\varnothing 7 \times 36 \text{ mm}$ - Stainless steel - IP 68			
Type of cable	PVC flat cable 3m	PVC flat cable 0,7m	PVC rond cable $\varnothing 4 \times 40 \text{ cm}$	identical to standard version
Protection of sensor	IP 67		IP 68	identical to standard version
Immersion of sensor	continuous immersion in water and glycol or alcohol solutions		continuous immersion in water and glycol solutions ; short time immersion in alcohol solutions	identical to standard version
Type of connector	plug	plug with extension lead	plug	identical to standard version
Protection of connector	IP 40	IP 67	IP 40	identical to standard version
Temperature values used for a standard calibration certificate	-18°C , $+6^\circ\text{C}$, $+22^\circ\text{C}$			$+30^\circ\text{C}$, $+37^\circ\text{C}$, $+50^\circ\text{C}$
Temperature values used for a standard calibration certificate and checking report	-40°C , 0°C , $+40^\circ\text{C}$			$+30^\circ\text{C}$, $+37^\circ\text{C}$, $+50^\circ\text{C}$
Temperature values used for a gauging certificate	-32°C , $+75^\circ\text{C}$			$+30^\circ\text{C}$, $+50^\circ\text{C}$
Preferred application	integration in chamber through door seal		ambient temperature	incubator

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