

I7000 & 7400 (Hygrosmart)

Interchangeable Sensor Module for Relative Humidity



The concept of the I7000 (Hygrosmart) Series is its interchangeability without the need of a recalibration. The small size allows its integration in any equipment while the plug-and-play system allows fast replacement even by non-skilled staff.

Highlights

- Interchangeable without re-calibration
- Sensor response time: <10sec
- Linearization for a specific isotherm on request
- Can be used up to peak temperatures of 95°C

Technical Specifications

Performance	
Measurement range (RH)	0–100% RH
Measurement range (T)	-30 to +85°C / -22 to +185°F
Accuracy at 23°C / 73°F Humidity	<±2% RH (5–95% RH)
Accuracy at 23°C / 73°F Temperature	±0.2°C / ±0.36°F (Pt100 1/3 DIN direct)
Stability – RH Sensor	<±1% RH/year
Response time – RH Sensor	<10 sec typical (for 90% of the step change)
Electrical output/input	
Output signal (RH)	I7000: 0–1 V I7400: 0.2–1 V Digital, variable frequency output
Output signal (T)	3-wire 1/3 DIN Pt100 direct
Supply voltage	5 VDC ±5%
Power consumption	≤ 1.5 mA max
Operating conditions	
Operating humidity Probe, Housing, Storage	0–100% RH
Operating temperature Probe, Housing Storage	-30 to +85°C / -22 to +185°F -40 to +85°C / -40 to +185°F
Mechanical specification	
Housing material	NORYL PPO UL 94 V0
Dimensions	L=33mm, ø14mm / L=1.3", ø 0.55"
Weight	3g / 0.1oz
Electrical connections	RH: 3-wire T: 3-wire

