# **17000 & 7400 (Hygrosmart)** Interchangeable Module for Relative Humidity



The I7000 (Hygrosmart) Series is interchangeable without the need for 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

Sensors

- Interchangeable without recalibration •
- Sensor response time: <10sec •
- Linearization for a specific isotherm on request
- Can be used up to peak temperatures of 95°C (200°F) •

#### **Dimensions**





## **Technical Specifications**

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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)	17000: 0–1 V 17400: 0.2–1 V Digital, variable frequency output	
Output signal (T)	3-wire 1/3 DIN Pt100 direct	
Supply voltage	5 V DC ±5%	
Power consumption	$\leq$ 1.5 mA max	
Operating conditions		
<b>Operating temperature</b> 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", ø0.55")	
Weight	3g (0.1oz)	
Electrical connections	RH: 3-wire T: 3-wire	

Accessories and Spare Parts		
Mini flange	1A01210	
Connecting kit with wires	6A06350	
Connecting kit for PCB	6A05130	





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# **Electrical Connections**



## **Order Codes**

17000 & 17400 - Interchangeable Module for Relative Humidity		
Feature	Item	Description
Туре	17-0-00-0	0-1 V without temp configuration
	17-0-00-1	0-1 V with direct Pt100
	17-4-00-0	0.2-1 V without temp configuration
	17-4-00-1	0.2-1 V with direct Pt100

