

## High Temperature Humidity Sensor

### PRODUCT INFO

#### PRODUCT NAME

High Temperature Humidity Transmitter

#### PRODUCT CODE

THA-70

#### PRODUCT CATEGORY

Humidity Instruments

#### PRODUCT PRICE

Talk with a Serrata Instruments Reseller



### APPLICATION GUIDELINES

High-temperature humidity transmitters are essential for demanding industrial processes where standard sensors fail to operate reliably. Our product is specifically designed to withstand extreme conditions, featuring a stainless steel capacitive humidity probe capable of accurate measurements at temperatures up to 180°C. This makes it an ideal solution for drying applications in industries such as food processing, textiles, pharmaceuticals, and ceramics.



## ROBUST & ACCURATE HUMIDITY MEASUREMENT UP TO 180 °C

Unlike general-purpose humidity sensors, this high-temperature model is purpose-built for harsh environments and provides stable performance under continuous thermal stress. It offers seamless integration into industrial automation systems with two available versions: one with dual 4-20mA outputs, and another with RS485 Modbus communication. Whether monitoring real-time humidity during thermal drying or controlling moisture levels in high-temperature chambers, this sensor ensures precise and reliable data for optimized process control.

### CONTACT US

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## KEY FEATURES PRODUCT

### INTEGRATION AVAILABILITY

- THA-70 has two versions of data output, as 2 x 4-20 mA Analog Outputs or Rs485 Modbus

### ROBUST DESIGN

- Thanks to Stainless Steel Probe and Metal Transmitter Housing, fully suitable for industrial applications

### CHARACTERISTIC FEATURES

- To be work up to 180 °C ambient to measuring the humidity.

### APPLICATION USAGE

- Drying Process for Food, Textile, Ceramic and more

## INFORMATION

## THA-70-A

## THA-70-M

Humidity Measuring Range	0-100 %RH (Typical) (10-95 RH% non-condensing)	
Humidity Accuracy	±2 %RH (< 90 %RH @ 20°C)	
Temperature Range (as probe working)	-40...+180 °C	
Temperature Accuracy	± 0,3 °C (@ 20°C)	
Response Time (Humidity)	<12 second	
Probe Material and Filter Cap	304 SS - Sintered Metal	
Probe Dimension and cable	200 mm lenght - 15 mm dia, 2 meter integrated cable	
Transmitter Output	2 x 4-20 mA	Rs485 Modbus
Alarm	2 x Relay (3A - 30 Vdc or 250 Vac)	
Power	15...35 Vdc	
Transmitter Electronic	Aluminium case (120x88x51 mm), -20...+50 °C working temp, 2 row LCD	

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