



SERIES: HTP24

- > RH & TEMPERATURE MEASUREMENTS
- > DUCT / IN-HOLE MOUNTED
- > 4-20 mA OUTPUT(S)
- > FAST RESPONSE
- > COMPACT SIZE
- > IP65 (NEMA4 OR 4X)
- > 2-WIRE TEMPERATURE TRANSMITTER (OPTION)
- > ST. STAINLESS STEEL SINTERED FILTER (OPTION)



INTRODUCTION

The *HTP24 Series* Relative Humidity (RH) transmitters with temperature probe or optional temperature transmitter accurately measure relative humidity and temperature to provide one or two 4-20 mA outputs.

They utilizes a thin-film capacitive sensor for relative humidity measurement of air or non-aggressive gases and produce a 2-wire, linear 4-20 mA output accordingly.

As standard, the instrument has an additional output for sensing the process temperature using a Pt100 probe, or optionally it may be equipped with an additional 2-wire, 4-20 temperature transmitter.

It may be specified with stainless steel or PVC stem material with various lengths starting from 10 cm and up; with 1 cm increment. It may also be ordered with a sintered filter mounted on the sensing element(s).

SPECIFICATIONS

HUMIDITY

Output	4-20 mA, 2-wire
Measuring Range	0-100% RH
Sensor Type	Capacitive
Working Temperature	-20...90°C (for the SS stem) -10...70°C (for the PVC stem)
Accuracy	Better than ±2.5% of span
Temperature Drift for RH	0.05% of span per 1°C

TEMPERATURE MEASUREMENT & TRANSMITTER

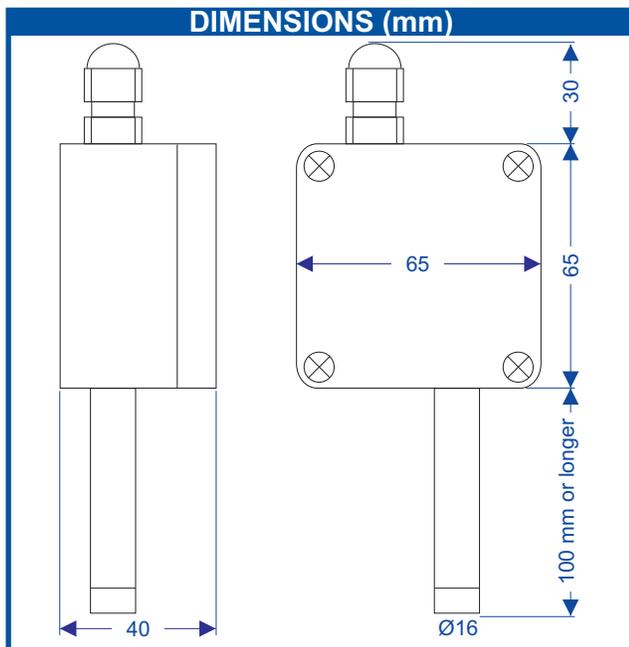
Output (Optional)	4-20 mA, 2-wire
Input Range	-20...90°C (-4...194°F)
Sensor Type	Pt100
Accuracy	Better than ±0.5 of span
Temperature Drift	0.01% of span per 1°C
Zero & Span Adjustments	±20% for transmitter

ELECTRICAL

Power Supply	8...36 VDC
Max. Loop Load	800 Ω @ 24 V and 20 mA
Connections	Scrw Terminals inside housing
Cable Entry	Compression cable gland

GENERAL

Body Material	ABS
Stem Material	Stainless steel or PVC (select)
Sensor Length	100 mm minimum; Customer specifies; 10 mm increment
Sintered Filter Material	Stainless steel, 75 μm (option)
Protection	IP65, NEMA4,4X
Mounting	Duct / in-hole mounting
Weight (approximately)	300 grams (0.66 lb) for SS sensor 200 grams (0.44 lb) for PVC sensor



ORDER CODES

Model HTP24 -

STEM MATERIAL	<input type="checkbox"/> St. Steel <input type="checkbox"/> PVC	<input type="checkbox"/> S <input type="checkbox"/> P
2-WIRE TEMPERATURE TRANSMITTER	<input type="checkbox"/> Not Required <input type="checkbox"/> Required	<input type="checkbox"/> X <input type="checkbox"/> T
MOUNTING FLANGE (st. steel)	<input type="checkbox"/> Not Required <input type="checkbox"/> Required	<input type="checkbox"/> X <input type="checkbox"/> G
SINTERED FILTER	<input type="checkbox"/> Not Required <input type="checkbox"/> Required	<input type="checkbox"/> X <input type="checkbox"/> F

Please specify the stem length from 100 mm up, with 10 mm increment.

