SERIES: HTW24

➤ **RH & TEMPERATURE MEASUREMENTS**
➤ **WALL MOUNTED FOR AMBIENT APPLICATION**
➤ **4-20 mA OUTPUT(S)**
➤ **FAST RESPONSE**
➤ **COMPACT SIZE**
➤ **IP65 (NEMA4 OR 4X)**
➤ **2-WIRE TEMPERATURE TRANSMITTER (OPTION)**
➤ **ST. STAINLESS STEEL SINTERED FILTER (OPTION)**

Wall / Surface Mounting Applications

INTRODUCTION

The *HTW24 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 senor 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 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	-10...60°C
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
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	Screw Terminals inside housing
Cable Entry	Compression cable gland

GENERAL

Body Material	ABS
Stem Material	POM (polyacetal)
Sensor Length	20 mm
Sensor Protection	Plastic cap with st. steel mesh
Sintered Filter Material	Stainless steel, 75 µm (option)
Protection	IP65, NEMA4,4X
Mounting	Wall or surface mounting
Weight	150 grams (0.33 lb) approximately

DIMENSIONS (mm)

Ø16, 40, 20, 65, 65, 30
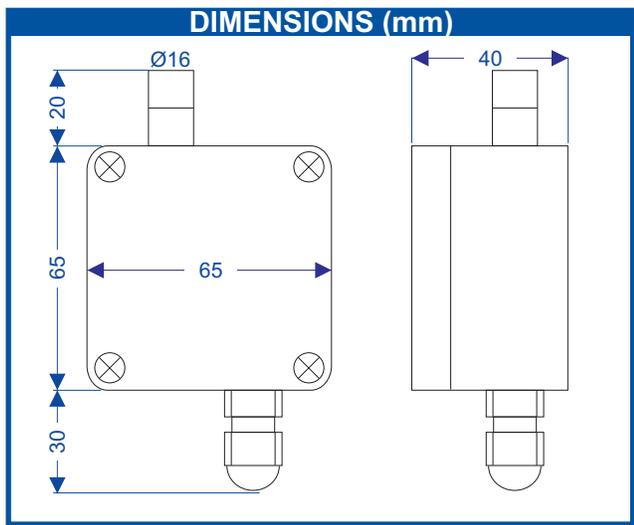
ORDER CODES

Model HTW24 - ☐ ☐

2-WIRE TEMPERATURE TRANSMITTER
Not Required — X
Required — T
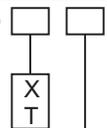
SINTERED FILTER
Not Required — X
Required — F

Other Indumart models are available for higher temperature, duct-mounting applications and various stem materials.