

ASPIRATED HUMIDITY TRANSMITTER

- Temperature compensated
- Computer certified
- 2-Wire, 4...20mA
- Economical pricing
- 2% accuracy

MODEL: HTC-420

Our temperature compensated humidity transmitter has been designed to meet the demands of greenhouse operators, energy management, environmental and process industries. The polymer based humidity sensor is one of the most stable sensors available. The 2 wire, 4-20 mA design provides ease of installation, lowering the cost of field wiring.

The 2% accuracy over the wide range of 10-90% rH allows precise measurement of the humidity over the operating range of 0 to +60C. Even condensation on the sensor will not harm it.

Each transmitter is calibrated in our computer operated atmospheric simulation chamber against our traceable Standard, a Condensation Dew Point Hygrometer. Each is delivered with a computer calibrated traceable 3 point certificate.

An RTD or thermistor can be added to provide temperature outputs. Additionally, a temperature transmitter can be added to provide 2-wire, 4-20mA temperature output as well.

A miniature fan is available to provide aspiration while the white housing limits solar heating.

ORDERING DATA

HTC-A-420	splashproof, aspirated
HTC-W-420	splashproof, not aspirated
HTTC-A-420	with 4-20mA -50+50C temperature transmitter
HTC-A-420-10K	with 10K thermistor
HTC-A-420-100	with 100 ohm platinum RTD



HUMIDITY

TECHNICAL DATA

Range

operating: 10 - 90% rH / calibration: 0 - 100% rH

Accuracy

+/- 1 & 2% at 25 degrees C

Temperature Dependence

0.2% rH per degree C

Response Time

1 minute from 90% to 10% rH

Output

4 to 20mA in 2-wire technology

Load

250/500 ohms +/- .1% at 12 /24 VDC supply

Power Supply

24 VDC +/- 15%

Operating/Storage Temperature

0 to +60 C/-20 to +70 C for 0-100%rH, non-condensing

Stability

+/- 2% rH in 24 months typical

Medium

Do not expose to vapours such as acetone that attack plastic.

ENERCORP

instruments ltd

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