

Bid Specification

1 (1)

2020-10-01

HMP3 Humidity and Temperature Probe for General Purpose



Probe (top), probe with Indigo200 (bottom left), and probe with Indigo520 (bottom right)

Features/Benefits:

- Relative Humidity accuracy up to ±0.8 %RH
- Temperature measurement range -40 ... +120 °C (-40 ... +248 °F)
- Vaisala HUMICAP®R2 sensor for superior accuracy and stability
- Sensor purge provides superior chemical resistance for harsh conditions
- Corrosion-resistant IP66 probe housing
- Traceable calibration (certificate included)
- Modbus RTU over RS-485
- Plug & play compatible with INDIGO200 Series
 Transmitters for display, relays or analog outputs
- Plug & play compatible with INDIGO520 Series
 Transmitters for interactive display, relays, analog outputs, data logging, and ethernet
- Humidity parameter options: Relative humidity, temperature, dew point temperature, wet-bulb temperature, absolute humidity, mixing ratio, water concentration, water mass fraction, water vapor pressure, enthalpy
- Compatible with Vaisala's INSIGHT software

Summary:

Probe is designed for general use as a remote or standalone probe. Optional flange style duct installation kit. Probe shall incorporate a thin film polymer capacitive HUMICAP®R2 humidity sensor with accuracy of ± 0.8 %RH (o ... 90 %RH) at ± 23 °C (± 73.4 °F). Temperature sensor shall be a platinum ± 1000 RTD with accuracy up to 0.1 °C (0.18 °F) at ± 23 °C (± 73.4 °F). Electronics to be protected in an IP66 rated metal probe body with an operating temperature range of ± 40 ... ± 80 °C (± 40 ... ± 176 °F). Probe to be powered by 15 ... 30 VDC with Modbus RTU communication protocol over RS-485. Remote probe head shall have a temperature operating range of ± 40 ... ± 120 °C (± 40

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