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## HMT368 Intrinsically Safe Humidity and Temperature Transmitters for Pressurized Processes



### Features/Benefits:

- Interchangeable probe allows for easy maintenance & calibration
- Measures humidity and temperature, outputs also dew point, mixing ratio, absolute humidity and wet bulb temperature
- Safe operation with the entire transmitter in hazardous areas: Division 1 and 2 (USA, Canada)
- Vaisala HUMICAP® Sensor features high accuracy, excellent long-term stability, and negligible hysteresis
- NIST traceable (certificate included)

### Summary:

Intrinsically safe transmitter shall incorporate a thin film polymer capacitive HUMICAP® humidity sensor that is field replaceable and have accuracy of  $\pm 1\%$  RH (0...90% RH) and  $\pm 1.7\%$  RH (90...100% RH) at  $+15 \dots +25 \text{ }^\circ\text{C}$  ( $59 \dots +77 \text{ }^\circ\text{F}$ ). Temperature sensor shall be a platinum  $1000\Omega$  RTD with accuracy of  $\pm 0.2^\circ\text{C}$  ( $0.36^\circ\text{F}$ ) at  $20^\circ\text{C}$  ( $68^\circ\text{F}$ ). Electronics to be protected in a NEMA-4 enclosure and approved by FM for Classes I,II,III, Div 1, Groups A-G and Div 2, Groups A-D,F, and G. Also CSA approved for Class I, Div 1 and 2, Groups A,B,C,D; Class II, Div 1 and 2, Groups G and Coal Dust; and Class III. Transmitter to be powered by 12...28 VDC and provide two 4 to 20 mA analog outputs (one optional). Remote probe shall have a measurement range of 0 to 100% RH and  $-70^\circ$  to  $180^\circ\text{C}$  ( $-94^\circ$  to  $356^\circ\text{F}$ ), a standard cable length to be 2 meters (optional 5 or 10 meters), and pressure rating of 4 MPa (580 psi). Transmitter shall be microprocessor based giving the option to calculate and directly output dew point, absolute humidity, wet bulb temperature and mixing ratio. Transmitter shall also have the option of incorporating a local display in its cover. Probes shall be interchangeable for minimal downtime. NIST traceable calibration certificate included.

Vaisala Model HMT368 [Order Guide](#)