



# MODEL 41382

## RELATIVE HUMIDITY / TEMPERATURE PROBE



### SPECIFICATIONS:

Power Requirement	41382	41342
V Option: 10-28 VDC	8 mA	5 mA

#### Relative Humidity: (41382)

**Measuring Range:** 0-100 %RH  
**Accuracy at 20 °C:** ±2 %RH,  
**Stability:** Better than ±1 %RH per year  
**Response Time:** 10 seconds (without filter)  
**Sensor Type:** Rotronic HygromerTM  
**Output Signal:** V option: 0-1 VDC, L option: 4-20 mA

#### Temperature: (41382, 41342)

**Calibrated Measuring Range:**  
 -50 to 50 °C (suffix C)  
 -50 to 150 °F (suffix F)  
**Response Time:** 10 seconds (without filter)  
**Accuracy at 0 °C:** ±0.3 °C\*\*  
 ±0.1 °C (optional) with NIST traceable calibration  
**Sensor Type:** Platinum RTD  
**Output Signal:** V Option: 0-1 VDC,  
 L Option: 4-20 mA, 4 wire RTD (41342 only)

#### Recommended Radiation Shields

Model 41003P Multi-Plate Radiation Shield  
 Model 43408P Aspirated Radiation Shield

The Model 41382 Relative Humidity/Temperature Probe combines a high accuracy, capacitance type humidity sensor and precision Platinum RTD temperature sensor in one probe. This probe offers a choice of 0-1 VDC or 4-20 mA outputs for T and RH.

Model 41342 Temperature Probe offers accurate temperature-only measurement. Three output options are available: 0-1 VDC, 4-20 mA, and 4 wire RTD. Probes are easily installed in YOUNG naturally ventilated (multi-plate) and aspirated radiation shields. A junction box is provided for cable terminations.

Ordering information	Sensor Cable	Model
RELATIVE HUMIDITY/TEMP PROBE 4-20 mA output	18723	41382L
RELATIVE HUMIDITY/TEMP PROBE 0-1 VDC output	18446	41382V
TEMPERATURE PROBE 4 wire RTD output	18723	41342
TEMPERATURE PROBE 4-20 mA output	18641	41342L
TEMPERATURE PROBE 0-1 VDC output	18443	41342V

