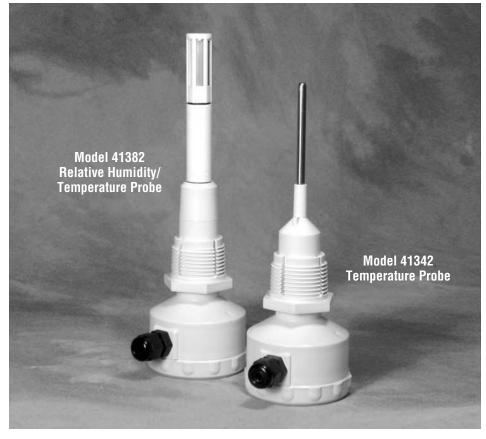
Model 41382 **Relative Humidity / Temperature Probe** Model 41342 **Temperature Probe** 



**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.		41382L*
RELATIVE HUMIDITY/TEMP PROBE 0-1 VDC output.		41382V*
TEMPERATURE PROBE 4 wire RTD output		41342
TEMPERATURE PROBE 4-20 mA output		41342L*
TEMPERATURE PROBE 0-1 VDC output		41342V*
*Specify °F or °C		

\*Specify °F or °C



R.M. YOUNG COMPANY 2801 Aero Park Drive Traverse City, Michigan 49686 USA TEL: (231) 946-3980 FAX: (231) 946-4772 E-mail: met.sales@youngusa.com Web Site: www.youngusa.com **Specifications** 

Power Required:	41382	41342
V Option: 10-28 VDC	8 mA	5 mA
L Option: 10-28 VDC	40 mA	20 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 Hygromer™ 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

\*\*Differential measurement recommended with V option.



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