



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.

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*

*Specify °F or °C

 Complies with applicable CE Directives



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

Inteltronics Instrumentation
Uitsig, De Kroon, Brits
P.O. Box 181, Brits, 0250, S.A
TEL: +27 (0)12 250 2403
FAX: +27 (0)12 250 2809
E-mail: itronics@icon.co.za
Web Site: www.inteltronics.co.za