

MODEL 41382LC/LF RELATIVE HUMIDITY/ TEMPERATURE PROBE, 4-20 mA OUTPUT

MODEL 41382VC/VF RELATIVE HUMIDITY/ TEMPERATURE PROBE, 0-1 V OUTPUT

INSTRUCTION MANUAL

WARRANTY AND ASSISTANCE

R.M. YOUNG PRODUCTS are warranted by CAMPBELL SCIENTIFIC (CANADA) CORP. ("CSC") to be free from defects in materials and workmanship under normal use and service for **twelve (12) months** from date of shipment unless specified otherwise. ***** **Batteries are not warranted.** ***** CSC's obligation under this warranty is limited to repairing or replacing (at CSC's option) defective products. The customer shall assume all costs of removing, reinstalling, and shipping defective products to CSC. CSC will return such products by surface carrier prepaid. This warranty shall not apply to any CSC products which have been subjected to modification, misuse, neglect, accidents of nature, or shipping damage. This warranty is in lieu of all other warranties, expressed or implied, including warranties of merchantability or fitness for a particular purpose. CSC is not liable for special, indirect, incidental, or consequential damages.

Products may not be returned without prior authorization. To obtain a Return Merchandise Authorization (RMA), contact CAMPBELL SCIENTIFIC (CANADA) CORP., at (780) 454-2505. An RMA number will be issued in order to facilitate Repair Personnel in identifying an instrument upon arrival. Please write this number clearly on the outside of the shipping container. Include description of symptoms and all pertinent details.

CAMPBELL SCIENTIFIC (CANADA) CORP. does not accept collect calls.

Non-warranty products returned for repair should be accompanied by a purchase order to cover repair costs.





MODEL 41382LC/LF

RELATIVE HUMIDITY/TEMPERATURE PROBE, 4-20 mA OUTPUT

INTRODUCTION

The Model 41382LC/LF Relative Humidity/Temperature Probe combines a high accuracy humidity sensor and temperature sensor in one probe. The probe is available in Celsius or Fahrenheit calibration. Output signal is 4-20 mA for both Relative Humidity and Temperature.

INSTALLATION

The Relative Humidity/Temperature probe should always be installed in a protective radiation shield to ensure accurate data. Use of the probe without a radiation shield may result in large errors. The probe installs easily in YOUNG naturally ventilated or motor aspirated shields. For best performance, the probe and shield should be placed in a location with good air circulation clear of large masses (buildings, pavement, solar panels...), exhaust vents, electrical machinery and motors, water fountains and sprinklers.

MAINTENANCE

The Relative Humidity/Temperature probe is designed to offer years of service with minimal maintenance. As with most humidity sensors, humidity calibration may drift slightly with time. Recalibration will restore probe to acceptable limits.

In areas of high dust or contamination (ie: smokestacks, seawater), periodic cleaning of the RH sensor protective filter is recommended. Soaking in clean water or a mild soap solution is recommended. DO NOT USE SOLVENTS.

CE COMPLIANCE

This product has been tested and shown to comply with European CE requirements for the EMC Directive. Please note that shielded cable must be used.

WARRANTY

This product is warranted to be free of defects in materials and construction for a period of 12 months from date of initial purchase. Liability is limited to repair or replacement of defective item. A copy of the warranty policy may be obtained from R. M. Young Company.

SPECIFICATIONS

Power Required:	12-28 VDC, 40 mA
RELATIVE HUMIDITY: Measuring range: Accuracy at 20-25°C: Stability: Response Time: Sensor type: Output signal:	0-100% RH ±2% Better than ±1%RH per year 10 seconds (Without Filter) Rotronic Hygromer 4-20 mA
TEMPERATURE: Calibrated measuring range:	-50 to +50°C (suffix C)
Accuracy at 20-25°C:	-50 to +150°F (suffix F) +0.3°C
Time constant:	10 seconds (Without Filter)
Sensor type:	100 Ohm Platinum RTD
Output signal:	4-20 mA
Recommended Cable:	2 pair shielded, 22 AWG (#18723)
Recommended Radiation S	hields:
Model 43408P	Gill Aspirated Radiation Shield

Model 41003P

Gill Multi-Plate Radiation Shield

Declaration of Conformity

Application of Council Directives: Standards to which Conformity is Declared:

Manufacturer's Name and Address:

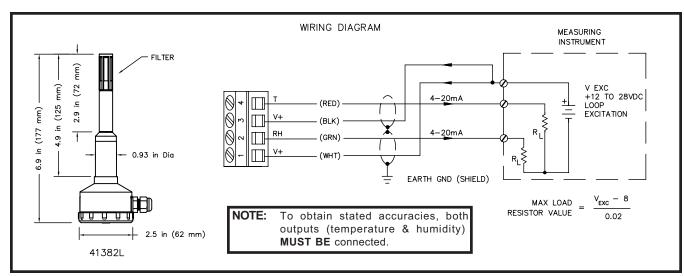
Importer's Name and Address: Type of Equipment: Model Number / Year of Manufacture:

89/336/EEC EN 50081-2 (IEC 801-2, 3, 4) EN 50082-2 R. M. Young Company Traverse City, MI, 49686, USA See Shipper or Invoice Meteorological Instruments 41382 (V, L)/2004

I, the undersigned, hereby declare that the equipment specified conforms to the above Directives and Standards Date / Place: Traverse City, Michigan, USA July 28, 2004

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David Poinsett R & D Manager, R. M. Young Company



R. M. YOUNG COMPANY 2801 Aero Park Drive, Traverse City, Michigan 49686 USA TEL (231) 946-3980 FAX (231) 946-4772



MODEL 41382VC/VF INST RELATIVE HUMIDITY/TEMPERATURE PROBE, 0-1 V OUTPUT

INTRODUCTION

The Model 41382VC/VF Relative Humidity/Temperature Probe combines a high accuracy humidity sensor and temperature sensor in one probe. The probe is available in Celsius or Fahrenheit calibration. Output signal is 0-1V for both Relative Humidity and Temperature.

INSTALLATION

The Relative Humidity/Temperature probe should always be installed in a protective radiation shield to ensure accurate data. Use of the probe without a radiation shield may result in large errors. The probe installs easily in YOUNG naturally ventilated or motor aspirated shields. For best performance, the probe and shield should be placed in a location with good air circulation clear of large masses (buildings, pavement, solar panels...), exhaust vents, electrical machinery and motors, water fountains and sprinklers.

MAINTENANCE

The Relative Humidity/Temperature probe is designed to offer years of service with minimal maintenance. As with most humidity sensors, humidity calibration may drift slightly with time. Recalibration will restore probe to acceptable limits.

In areas of high dust or contamination (ie: smokestacks, seawater), periodic cleaning of the RH sensor protective filter is recommended. Soaking in clean water or a mild soap solution is recommended. DO NOT USE SOLVENTS.

CE COMPLIANCE

This product has been tested and shown to comply with European CE requirements for the EMC Directive. Please note that shielded cable must be used.

WARRANTY

This product is warranted to be free of defects in materials and construction for a period of 12 months from date of initial purchase. Liability is limited to repair or replacement of defective item. A copy of the warranty policy may be obtained from R. M. Young Company.

SPECIFICATIONS

SPECIFICATIONS	
Power Required:	12-28 VDC, 10 mA
RELATIVE HUMIDITY: Measuring range: Accuracy at 20-25°C: Stability: Response Time: Sensor type: Output signal:	0-100% RH ±2% Better than ±1%RH per year 10 seconds (Without Filter) Rotronic Hygromer 0-1V
TEMPERATURE: Calibrated measuring range:	-50 to +50°C (suffix C)
Accuracy at 20-25°C: Response Time:	-50 to +150°F (suffix F) ±0.3°C 10 seconds (Without Filter)
Sensor type: Output signal: Recommended Cable:	100 Ohm Platinum RTD 0-1V 5 COND shielded, 22 AWG (#18446)
Recommended Radiation Sh Model 43408P Model 41003P	ields: Gill Aspirated Radiation Shield Gill Multi-Plate Radiation Shield

Declaration of Conformity

Application of Council Directives: Standards to which Conformity is Declared:

Manufacturer's Name and Address:

Model Number / Year of Manufacture:

Type of Equipment:

EN 50081-2 (IEC 801-2, 3, 4) EN 50082-2 R. M. Young Company Traverse City, MI, 49686, USA See Shipper or Invoice Meteorological Instruments 41382 (V, L)/2004

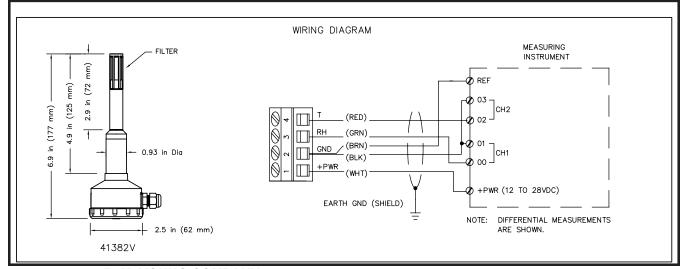
89/336/EEC

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David Poinsett

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