The Model 41372 Relative Humidity/Temperature Probe combines a high accuracy, capacitance type humidity sensor and 1000 ohm 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

| RELATIVE HUMIDITY/TEMP PROBE 4-20 mA output | 18723 | 41372L* |
| RELATIVE HUMIDITY/TEMP PROBE 0-1 VDC output | 18446 | 41372V* |
| 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

### Specifications

<table>
<thead>
<tr>
<th>Power Required:</th>
<th>41372</th>
<th>41342</th>
</tr>
</thead>
<tbody>
<tr>
<td>V Option: 8-24 VDC</td>
<td>9 mA</td>
<td>5 mA</td>
</tr>
<tr>
<td>L Option: 12-30 VDC</td>
<td>40 mA</td>
<td>20 mA</td>
</tr>
</tbody>
</table>

**RELATIVE HUMIDITY (41372)**

- Operating Temperature: -10 to 60 °C (14 to 140 °F)
- Measuring Range: 0-100 %RH
- Accuracy at 20 °C: ±3 % from 10 to 90 %RH,
  ±4 % from 0 to 10 % & 90 to 100 %RH
- Stability: Better than ±2 %RH over 2 years
- Time Constant: 15 seconds
- Sensor Type: Vaisala Intercap
- Output Signal: V option: 0-1 VDC, L option: 4-20 mA

**TEMPERATURE (41372, 41342)**

- Calibrated Measuring Range:
  - -50 to 50 °C (suffix C)
  - -50 to 150 °F (suffix F)
- Time Constant: 42 seconds with Model 43408 Aspirated Radiation Shield
- Accuracy at 0 °C: ±0.3 °C**
- ±0.1 °C (optional) with NIST traceable calibration
- Sensor Type: 1000 Ω Platinum RTD
- Output Signal: V Option: 0-1 VDC, L Option: 4-20 mA, 4 wire RTD (41342 only)

### Recommended Radiation Shields:

- Model 41002P Gill Multi-Plate Radiation Shield
- Model 43408P Gill Aspirated Radiation Shield

**CE**

Complies with applicable CE Directives.

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