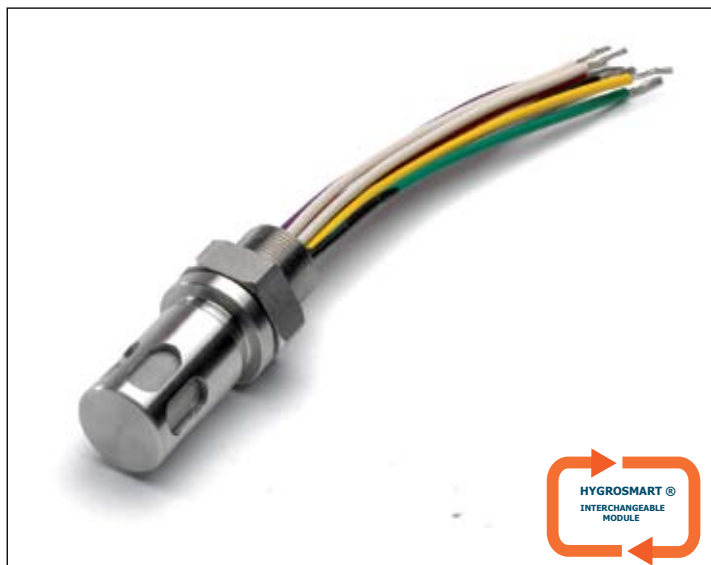


PCMini70

Relative Humidity and Temperature Mini Probe



The PCMini70 is a relative humidity transmitter based on the interchangeable Hygrosmart module.

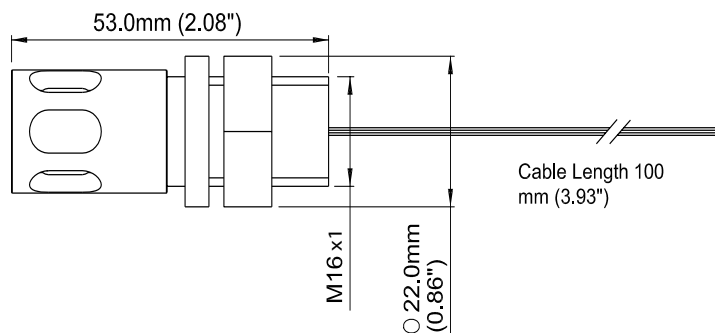
Highlights

- Designed for OEM applications
- Based on the interchangeable Hygrosmart module
- Compact housing

Technical Specifications

| Performance | |
|---|--|
| Measurement range (RH) | 0–100% RH |
| Measurement range (T) | -30 to +85°C / -22 to +185°F |
| Accuracy at 23°C / 73°F Humidity | <±2% RH (5–95% RH) |
| Accuracy at 23°C / 73°F Temperature | ±0.2°C (-10 to +50°C) ±0.36°F (14 to +122°F) |
| Stability – RH Sensor | <±1% RH/year |
| Response time – RH Sensor | <10 sec typical (for 90% of the step change) |
| Electrical output/input | |
| Output signal (RH) | 0-1 V |
| Output signal (T) | 3-wire 1/3 DIN Pt100 direct |
| Supply voltage | 5 VDC ±5% |
| Load resistance | R > 5K Ω Digital: CMOS compatible |
| Current consumption | 1.5 mA max |
| Operating conditions | |
| Operating humidity Probe, Housing, Storage | 0–100% RH |
| Operating temperature Sensing element Housing Storage | -30 to +85°C / -22 to +185°F -40 to +85°C / -40 to +185°F -40 to +85°C / -40 to +185°F |
| Mechanical specification | |
| Housing material | AISI 316 |
| Dimensions | L=53mm , ø22mm / L=2.08" , ø 0.86" |
| Filter | AISI 316 Stainless steel mesh |
| Weight | 65g / 2.30oz |
| Electrical connections | Threaded nipple + nut |

Dimensions



3가 40 - 2 703
02 - 2636 - 0009 02 - 2636 - 4753
www.gilwoo.co.kr giltron@chol.com

| Accessories and spare parts | |
|---|----------------|
| Hygrosmart without Pt100 | I7000.0 |
| Hygrosmart with Pt100 | I7000.1 |
| Stainless steel slotted cap with mesh filter (standard) | K1 |
| Stainless steel slotted cap with PTFE filter | Z1 |

| Electrical Connections | | |
|-------------------------------|-------|---------------------|
| Cable | | |
| Green | | |
| White | | |
| White | | |
| Black | 0 V | - Common ground |
| Red | +5 V | - Supply Voltage V+ |
| Violet | Out V | - Output RH (Volt) |
| Yellow | Out F | - Output RH (freq) |

Order codes

Relative humidity and temperature mini probe PC70 1 K1

| Temperature output signal | |
|----------------------------------|---|
| Relative humidity 0-1 V | |
| No temperature output | 0 |
| Pt100 direct (standard) | 1 |

| Filter | |
|---|----|
| Stainless steel slotted cap with mesh filter (standard) | K1 |
| Stainless steel slotted cap with PTFE filter | Z1 |

Example: PCMini70 1 K1

Relative humidity and temperature mini probe PC Mini70. Pt100 direct output and stainless steel slotted cap with mesh filter.

Please note: Michell Instruments adopts a continuous development program which sometimes necessitates specification changes without notice. Please contact us for latest version. Ref: PCMini70_97177_V1_UK_1009