

T&D Optional Products Catalog

Temp-Humidity Sensors & Illuminance-UV Sensors

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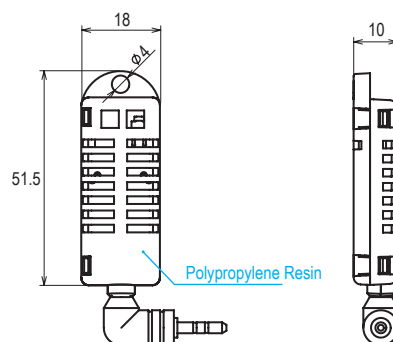


THA-3001



Provided with TR72A, TR-72nw, TR-76Ui and RTR-576

Temperature-Humidity Sensor



[Unit: mm]

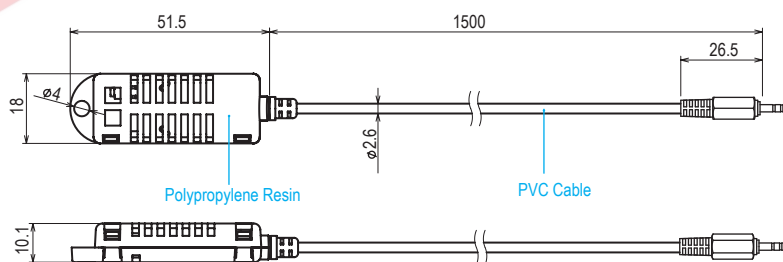
| | | |
|---------------------|-------------|--|
| Measurement Range | Temperature | 0 to 55°C |
| | Humidity | 10 to 95%RH |
| Accuracy | Temperature | ±0.5°C |
| | Humidity | ±5%RH at 25°C, 50%RH |
| Response Time (90%) | | Approx. 7 min. |
| Conditions for Use | | Do not expose to condensation, dampness, corrosive gases or organic solvents. Continued use may cause a decrease in the sensor's accuracy and sensitivity even under normal operational conditions. |
| Notes | | Can be extended by 9 meters with the Extension Cable TR-1C30 / TR-5C10 |

THA-3151



Provided with TR-74Ui and RTR-574

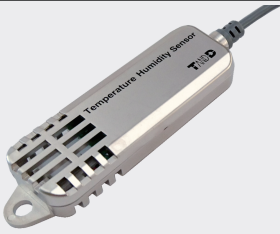
Temperature-Humidity Sensor



[Unit: mm]

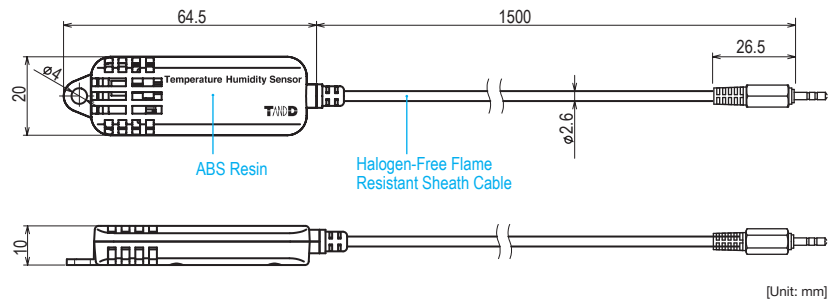
| | | |
|---------------------|-------------|--|
| Measurement Range | Temperature | 0 to 55°C |
| | Humidity | 10 to 95%RH |
| Accuracy | Temperature | ±0.5°C |
| | Humidity | ±5%RH at 25°C, 50%RH |
| Response Time (90%) | | Approx. 7 min. |
| Conditions for Use | | Do not expose to condensation, dampness, corrosive gases or organic solvents. Continued use may cause a decrease in the sensor's accuracy and sensitivity even under normal operational conditions. |
| Notes | | Can be extended by 9 meters with the Extension Cable TR-1C30 / TR-5C10 |

SHA-3151



Provided with TR72A-S, TR-72nw-S, TR-74Ui-S, TR-76Ui-S, RTR-574-S and RTR-576-S

High Precision Temp-Humidity Sensor



[Unit: mm]

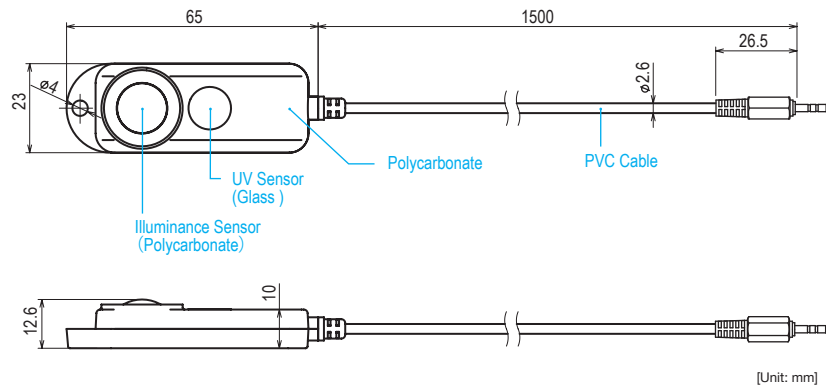
| | | | |
|-----------------------|-------------|--|------------------------|
| Measurement Range | Temperature | -25 to 70°C | |
| | Humidity | 0 to 99%RH When continually used in environments with temperatures above 60°C, accuracy of humidity measurements will decrease over time. Also, humidity cannot be measured at temperatures below -20°C. | |
| Accuracy | Temperature | ±0.3°C | at 10 to 40°C |
| | | ±0.5°C | all other temperatures |
| | Humidity | ±2.5%RH at 15 to 35°C, 30 to 80%RH | |
| Response Time (90%) | | Approx. 7 min. | |
| Long Term Stability | | ±1%RH/yr, ±0.1°C/yr | |
| Conditions for Use | | Do not expose to condensation, dampness, corrosive gases, organic solvents. | |
| Notes | | Can be extended by 9 meters with the Extension Cable TR-1C30 / TR-5C10 | |

ISA-3151



Provided with TR-74Ui, TR-74Ui-S,
RTR-574 and RTR-574-S

Illuminance-UV Sensors



| | | | |
|------------------------|---------------|---|--------------------|
| Measurement Range | Illuminance | 0 to 130,000 lx | |
| | UV Intensity | 0 to 30 mW/cm ² | |
| Measurement Resolution | Illuminance | Minimum 0.01 lx | |
| | UV Intensity | Minimum 0.001 mW/cm ² | |
| Accuracy | Illuminance | 10 lx to 100 klx | ±5% at 25°C, 50%RH |
| | UV Intensity* | 0.1 to 30 mW/cm ² | ±5% at 25°C, 50%RH |
| Conditions for Use | | Do not expose to condensation, dampness, corrosive gases or organic solvents. | |
| Notes | | Can be extended by 9 meters with the Extension Cable TR-1C30 / TR-5C10 | |

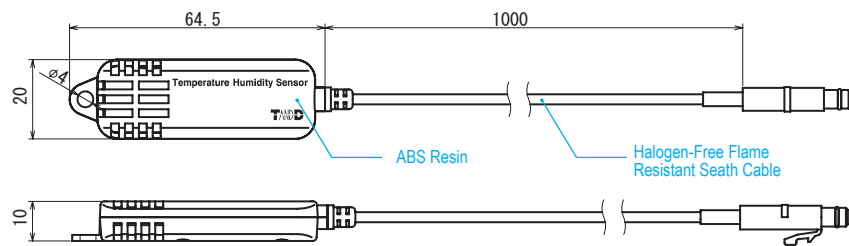
* Compared to the value measured by the T&D standard sensor for calibration under our calibration light source.

SHB-3101



Provided with RTR507B / 507BL

High Precision Temp-Humidity Sensor



[Unit: mm]

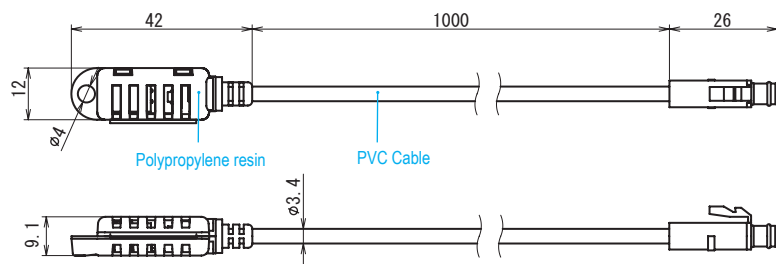
| | | |
|-----------------------|-------------|---|
| Measurement Range | Temperature | −25 to 70°C |
| | Humidity | 0 to 99%RH When continually used in environments with temperatures above 60°C, accuracy of humidity measurements will decrease over time. Also, humidity cannot be measured at temperatures below −20°C. |
| Accuracy | Temperature | ±0.3°C at 10 to 40°C ±0.5°C all other temperatures |
| | Humidity | ±2.5%RH at 15 to 35°C, 30 to 80%RH |
| Response Time (90%) | | Approx. 7 min. |
| Long Term Stability | | ±1%RH/yr, ±0.1°C/yr |
| Conditions for Use | | Do not expose to condensation, dampness, corrosive gases, organic solvents. |
| Notes | | Can be extended by 3 meters with the Extension Cable TR-3C30 |

TR-3310



Provided with RTR503B

Temperature-Humidity Sensor



[Unit: mm]

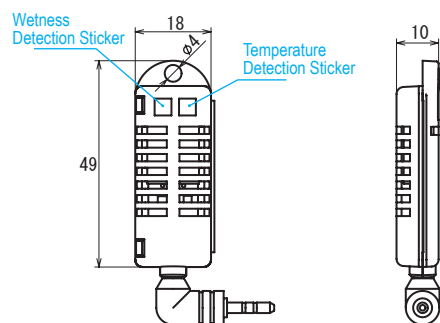
| | | |
|-----------------------|-------------|--|
| Measurement Range | Temperature | 0 to 55°C |
| | Humidity | 10 to 95%RH |
| Accuracy | Temperature | Avg.±0.3°C |
| | Humidity | ±5%RH at 25°C, 50%RH |
| Response Time (90%) | | Approx. 7 min. |
| Conditions for Use | | Do not expose to condensation, dampness, corrosive gases or organic solvents. Continued use may cause a decrease in the sensor's accuracy and sensitivity even under normal operational conditions. |
| Notes | | This sensor does not support the use of an extension cable. |

TR-3100



Provided with TR-73U

Temperature-Humidity Sensor



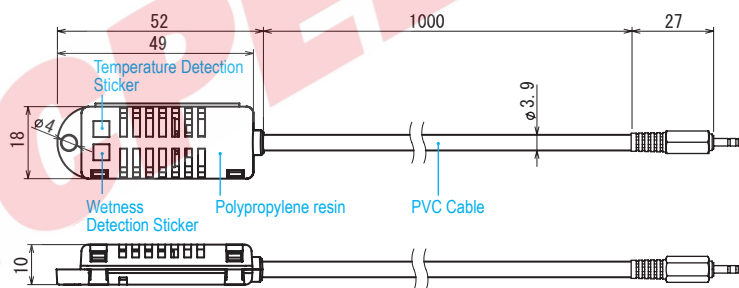
[Unit: mm]

| | | |
|-----------------------|-------------|--|
| Measurement Range | Temperature | 0 to 50°C |
| | Humidity | 10 to 95%RH |
| Accuracy | Temperature | Avg. $\pm 0.3^{\circ}\text{C}$ |
| | Humidity | $\pm 5\% \text{RH}$ at 25°C, 50%RH |
| Response Time (90%) | | Approx. 7 min. |
| Conditions for Use | | Do not expose to condensation, dampness, corrosive gases or organic solvents. Continued use may cause a decrease in the sensor's accuracy and sensitivity even under normal operational conditions. |
| Notes | | Can be extended by 1 meter with the Extension Cable TR-5C10 |

TR-3110



Temperature-Humidity Sensor

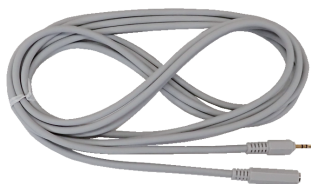


[Unit: mm]

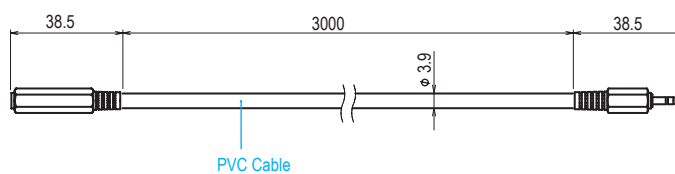
| | | |
|-----------------------|-------------|--|
| Measurement Range | Temperature | 0 to 50°C |
| | Humidity | 10 to 95%RH |
| Accuracy | Temperature | Avg. $\pm 0.3^{\circ}\text{C}$ |
| | Humidity | $\pm 5\% \text{RH}$ at 25°C, 50%RH |
| Response Time (90%) | | Approx. 7 min. |
| Conditions for Use | | Do not expose to condensation, dampness, corrosive gases or organic solvents. Continued use may cause a decrease in the sensor's accuracy and sensitivity even under normal operational conditions. |
| Notes | | This sensor does not support the use of an extension cable. |

Sensor Extension Cables

TR-1C30



Sensor Extension Cable



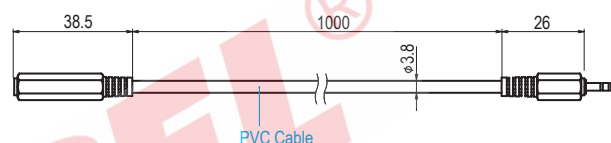
[Unit: mm]

| | |
|------------------------|--|
| Temperature Durability | -25 to 60°C |
| Waterproof Capacity | None |
| Compatible Sensors | Temperature Sensor: TR-1106, TR-1220, TR-1320, TR-0106, TR-0206, TR-0306, TR-0406, TR-0506, TR-0706 Temp-Humidity Sensor: THA-3001, THA-3151, SHA-3151 (Previous Model HHA-3151) Illuminance-UV Sensor: ISA-3151 Input Cable: VR-7101, VR-7102, VR-7103 |
| Conditions for Use | Temperature sensors can use up to 3 meters of extension cables. Temp-Humidity sensors and Illuminance-UV sensors can use up to 9 meters of extension cables. Input cables can use multiple extension cables. |

TR-5C10



Sensor Extension Cable



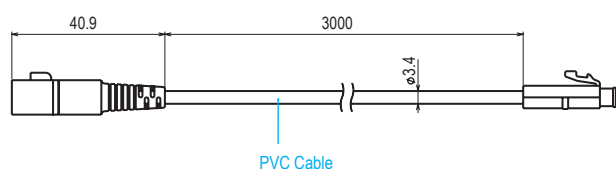
[Unit: mm]

| | |
|------------------------|---|
| Temperature Durability | -25 to 60°C |
| Waterproof Capacity | None |
| Compatible Sensors | Temperature Sensor: TR-1106, TR-1220, TR-1320, TR-0106, TR-0206, TR-0306, TR-0406, TR-0506, TR-0706 Temp-Humidity Sensor: THA-3001, THA-3151, SHA-3151, TR-3100 * (Previous Model HHA-3151) Illuminance-UV Sensor: ISA-3151 |
| Conditions for Use | Temperature sensors can use up to 3 meters of extension cables. Temp-Humidity sensors and Illuminance-UV sensors can use up to 9 meters of extension cables. * Only 1 extension cable for TR-3100 |

TR-3C30



Sensor Extension Cable



[Unit: mm]

| | |
|------------------------|--|
| Temperature Durability | -25 to 60°C |
| Waterproof Capacity | Splash proof (rated for use in daily life) |
| Compatible Sensors | Temp-Humidity Sensor: SHB-3101 (Previous Model HHB-3101) Input Module: TCM-3010, PTM-3010, VIM-3010, AIM-3010, PIC-3150, PMP-3200 |
| Conditions for Use | Only one cable per sensor or module. |