T&D Optional Products Catalog
Temp-Humidity Sensors & Illuminance-UV Sensors

Temperature Humidity Sensor

T&D Corporation

THA-3001

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

Temperature-Humidity Sensor

18 ⌀4 10 51.5

Polypropylene Resin

[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

51.5 1500 26.5 18 ⌀4 ⌀2.6 10.1

Polypropylene Resin PVC Cable

[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
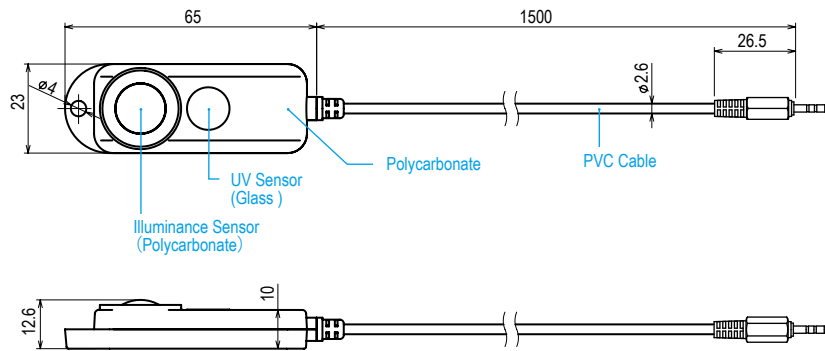
64.5　　　　1500　　　　26.5

20　ø4　Temperature Humidity Sensor　ø2.6

ABS Resin　Halogen-Free Flame Resistant Sheath Cable

10

[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

UV Sensor (Glass)

Illuminance Sensor (Polycarbonate)

Polycarbonate

PVC Cable

65 1500 26.5

23 ⌀4 ⌀2.6

12.6 10

[Unit: mm]

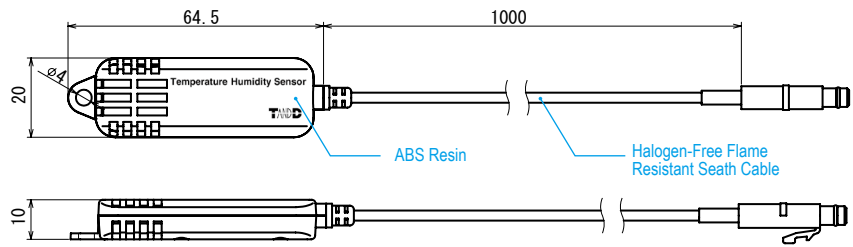| Measurement Range	Illuminance	0 to 130,000 lx
	UV Intensity	0 to 30 mW/cm^2
Measurement Resolution	Illuminance	Minimum 0.01 lx
	UV Intensity	Minimum 0.001 mW/cm^2
Accuracy	Illuminance	10 lx to 100 klx ±5% at 25°C, 50%RH
	UV Intensity*	0.1 to 30 mW/cm^2 ±5% at 25°C, 50%RH
Conditions for Use		Do not 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

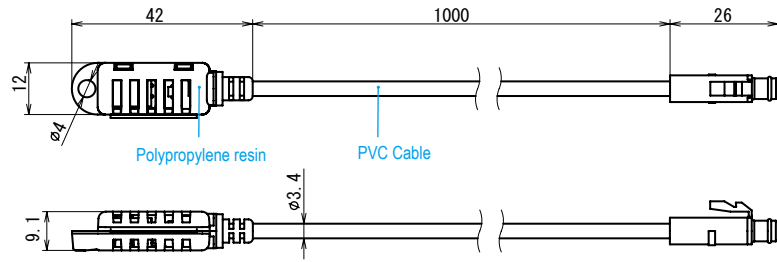Provided with RTR507B / 507BL

High Precision Temp-Humidity Sensor

64. 5   1000

⌀4

20

Temperature Humidity Sensor

ABS Resin

Halogen-Free Flame Resistant Seath Cable

10

[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

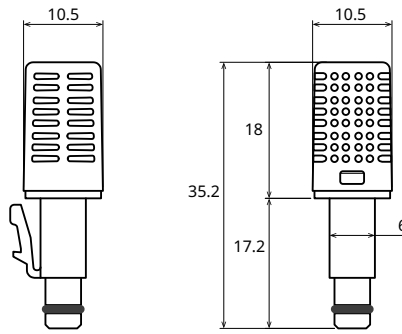Provided with RTR503B

Temperature-Humidity Sensor

Polypropylene resin   PVC Cable

[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.

THB3001

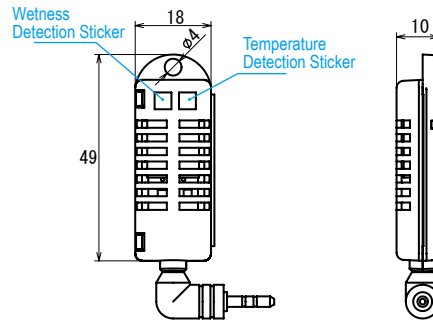Provided with TR43A

Temperature-Humidity Sensor

[Unit: mm]

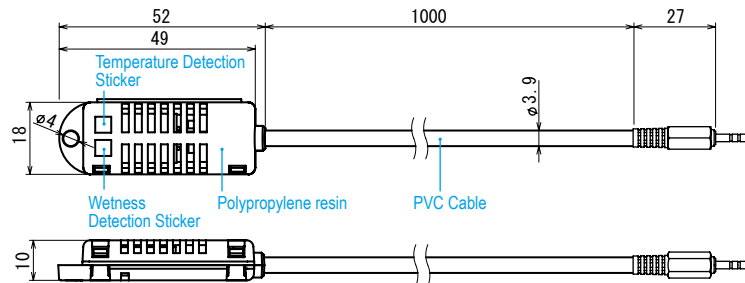| Measurement Range	Temperature	0 to 55°C
	Humidity	10 to 95%RH
Accuracy	Temperature	±0.5°C
	Humidity	±5%RH at 25°C, 50%RH
Response Time (90%)		TR43A: Approx. 11 min., RTR503B: Approx. 13 min., RTR503BL: Approx. 16 min.
Conditions for Use		Do not expose to condensation, dampness, corrosive gases or organic 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

Temperature-Humidity Sensor

Provided with TR-73U

Wetness Detection Sticker
Temperature Detection Sticker

18

ø4

49

10

[Unit: mm]

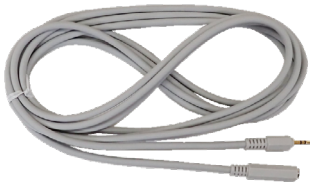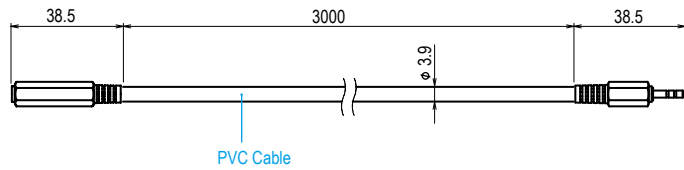| Measurement Range	Temperature	0 to 50°C
	Humidity	10 to 95%RH
Accuracy	Temperature	Avg. ±0.3°C
	Humidity	±5%RH at 25°C, 50%RH
Response Time (90%)		Approx. 7 min.
Conditions for Use		Do not expose to condensation, dampness, corrosive gases or organic solvents. Continued use may cause a decrease in the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

TR-3110

Temperature-Humidity Sensor

52
49
1000
27

Temperature Detection Sticker

ø4
18

ø3.9

Wetness Detection Sticker
Polypropylene resin
PVC Cable

10

[Unit: mm]

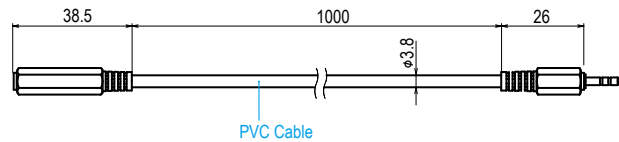| Measurement Range	Temperature	0 to 50°C
	Humidity	10 to 95%RH
Accuracy	Temperature	Avg.±0.3°C
	Humidity	±5%RH at 25°C, 50%RH
Response Time (90%)		Approx. 7 min.
Conditions for Use		Do not expose to condensation, dampness, corrosive gases or organic solvents. Continued use may cause a decrease in the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

Sensor Extension Cables

TR-1C30 — Sensor Extension Cable

38.5   3000   38.5
φ 3.9
PVC Cable

[Unit: mm]

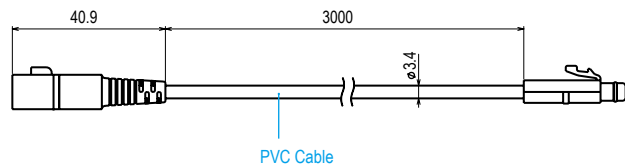| Temperature Durability	−25 to 60°C
Waterproof Capacity	None
Compatible Sensors	Temperature Sensor: TR-1106, TR-1220, TR-1320, TR-0106, TR-0206, TR-0306, TR-0406, TR-0506, TR-0706 Temp-Humidity Sensor: THA-3001, THA-3151, SHA-3151 (Previous Model HHA-3151) Illuminance-UV Sensor: ISA-3151 Input Cable: 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

38.5   1000   26
φ 3.8
PVC 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

40.9   3000
φ 3.4
PVC 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.