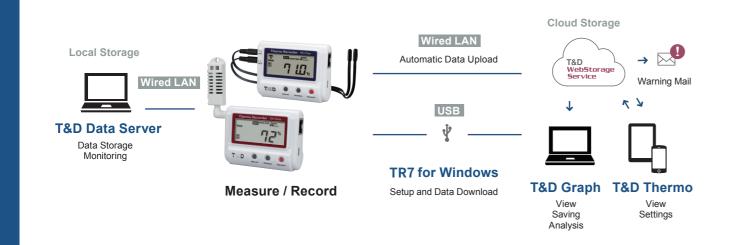


Data transmission via wired LAN ensures Stable and reliable transfer to T&D's Cloud Service

(T&D WebStorageService) where your important data can then be accessed from anywhere at anytime.

Simple direct USB connection to PC also allows for easy downloading and viewing of data, as well as, total control over logger settings.

Best of all T&D software and cloud storage service is FREE of charge!



T&D Data Server



Local server application for receiving, storing, and monitoring data on intranet.

TR7 for Windows



PC software for making/changing settings and data download via USB.

T&D Graph



High-performance graph tool that can read large numbers of data files into the same graph, merge data, and save data in various ways.

Compatible with T&D WebStorage Service / T&D Data Server.

T&D Thermo (iOS / Android)



Mobile application for viewing data in a graph and checking / changing settings via T&D WebStorage Service.

Also supports alarm push notifications.

Specification		TR-71nw	TR-72nw		TR-72nw-S		TR-75nw
Measurement Channels		Temperature 2ch	Temperature 1ch, Humidity 1ch		Temperature 1ch, Humidity 1ch		Temperature 2ch
Sensor		Thermistor	Thermistor	Polymer Resistance	Thermistor	Polymer Resistance	Thermocouple: Type K, J, T, E, S, R (*1)
Measurement Units		°C, °F	°C, °F	%RH	°C, °F	%RH	°C, °F
Measurement Range	Internal Sensor	-10 to 60°C (*2)	-	-	-	-	-
	External Sensor	-40 to 110°C (Supplied Sensor) -60 to 155°C (Optional Sensor: Fluoropolymer Coated Type)	0 to 55 °C	10 to 95 %RH	-25 to 70 °C	0 to 99 %RH (*3)	Type K: -199 to 1370 °C Type J: -199 to 1200 °C Type T: -199 to 400 °C Type E: -199 to 1000 °C Type S: -50 to 1760 °C Type R: -50 to 1760 °C
Accuracy		Avg. ± 0.3°C at -20 to 80°C Avg. ± 0.5°C at -40 to -20°C, 80 to 110°C	±0.5 °C	±5 %RH at 25 °C, 50 %RH	±0.3°C at 10 to 40 °C ±0.5°C all other temperatures	±2.5 %RH at 15 to 35 °C, 30 to 80 %RH	Thermocouple Measurement (Sensor inaccuracies not included) Type K, J, T, E: \pm (0.5 + 0.003 × t) °C at -100°C or above Type S, R: \pm (1.5 + 0.003 × t) °C at 100°C or above t= absolute value of measurement in °C Cold Junction Compensation \pm 0.5°C at 10 to 40 °C \pm 0.8°C other temperatures within the operating environment of the logger
Measurement Resolution		0.1°C	0.1 °C	1 %RH	0.1 °C	0.1 %RH	Type K, J, T, E: 0.1°C Type S, R: Approx. 0.2°C
Responsiveness		Response Time (90%): Approx. 190 sec.	Response Time (90%): Approx. 7 min. Response Time (90%): Approx. 7 min.				-
Logging Capacity		8,000 data sets (One data set consists of readings for all channels)					
Recording Interval		Select from 15 choices: 1, 2, 5, 10, 15, 20, 30 sec. or 1, 2, 5, 10, 15, 20, 30, 60 min.					
Recording Mode		Endless (Overwrite oldest data when capacity is full) or One Time (Stop recording when capacity is full)					
LCD Display Items		Measurements (fixed or alternating display), Recording Status, Recording Mode, Battery Warning Mark, etc.					
Auto-upload Interval		Select from 15 choices: OFF (No auto-upload), 1, 2, 5, 10, 15, 20, 30 min. or 1, 2, 3, 4, 6, 12, 24 hrs.					
Communication Interfaces		Wired LAN Communication 100BASE-TX/10BASE-T (RJ45 Connector) Protocol: HTTP(*4), DHCP, DNS USB Communication USB 2.0 (Mini-B connector)					
Power		Battery: AA Alkaline LR6 x 2, AA Ni-MH x 2 External: USB Bus 5V 200mA, AC Adaptor AD-05A2 or AD-05C2 (*5), PoE IEEE 802.3af (*6)					
Battery Life (*7)		Approx. 10 days to 1.5 years (depends on Auto-upload interval)					Approx. 10 days to 1 year (depends on Auto-upload interval)
Dimensions		H 58 mm x W 78 mm x D 26 mm					
Weight		Approx. 55 g					
Operating Enviro	nment	Temperature: -10 to 60°	°C (*8) , Humidity: 90) %RH or less (no co	ndensation)		
Accessories		Temperature Sensor TR-0106 x 2	Temperature-Hum	,	,	mperature-Humidity	(Sensor not provided)
		AA Alkaline Battery LR6 x 2, Registration Code Label, USB Mini-B Cable US-15C, Manual Set (Warranty Included)					
Software (*9)		PC Software (Windows) TR7 for Windows, T&D Graph, T&D Data Server Mobile Application (iOS, Android) T&D Thermo					

- *1: We do not handle the sale of Thermocouple sensors. Compatible wire sizes are as follows. Single Wire: Ø0.32 to Ø0.65 mm (AWG 28 22), Twisted Wire: 0.08 to 0.32 mm2 (AWG 28 22), Ø0.12 mm or more in diameter, Stripping Length: 9 to 10 mm
- *2: When Auto Upload is used frequently, the measurement of the internal sensor may rise by around 0.3°C.When using external power, the data logger itself generates heat and the internal sensor will report a temperature much higher than ambient; we recommend using an external temperature sensor in this case.
- *3: 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
- *4: HTTP client. Proxy supported.
- *5: The optional AC adaptor "AD-05A2" (Type A Plug) can be used in the USA and Canada, and "AD-05C2" (Type C Plug) in Europe. For usage in other countries, please contact your local distributor.
- *6: When using PoE, use of STP (shielded) cables may cause PoE failure or device malfunction. We strongly recommend using UTP cables.
- *7: Battery life in the table above is for two AA Alkaline type batteries, and varies depending upon multiple factors including frequency of communication, LAN environment, ambient temperature, recording interval, and battery performance. All estimates are based on operations carried out with a new battery and are in no way a guarantee of actual battery life.
 *8: -10 to 45°C when using external power.
- *9: Free software download and information on OS compatibility is available on the Software page of our website at https://tandd.com/software/

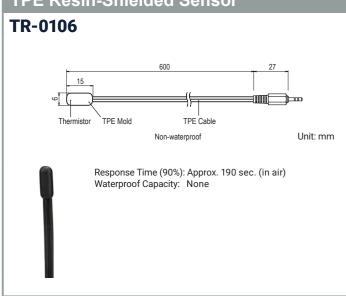
The specifications listed above are subject to change without notice

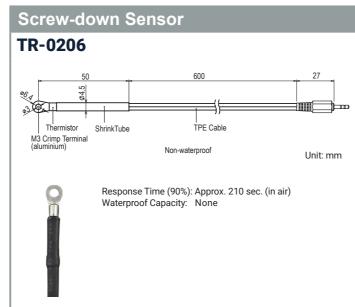
TR-7nw Series **Options**

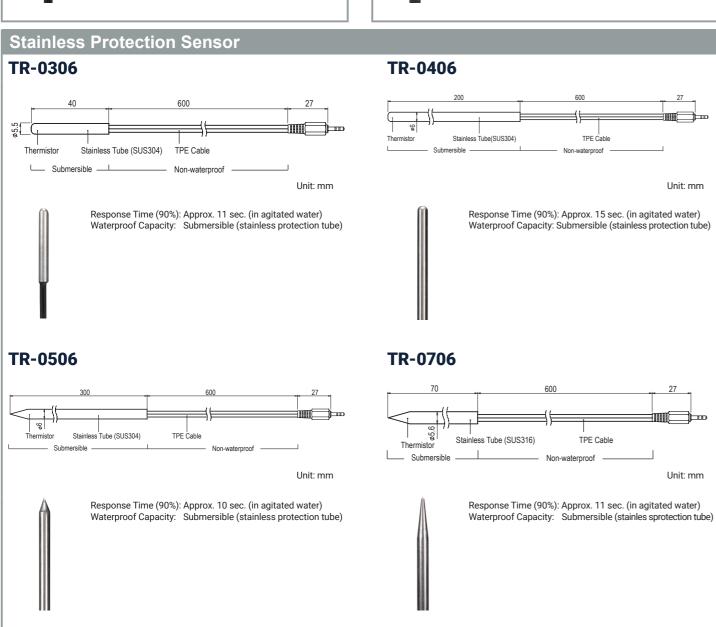
Temperature Sensors for TR-71nw

Measurement Range: -40 to 110°C Accuracy: Avg. ±0.3°C at -20 to 80°C, Avg. ±0.5°C at -40 to -20°C / 80 to 110°C Note: Can be extended by 3 meters with the Extension Cable TR-1C30 / TR-5C10

TPE Resin-Shielded Sensor

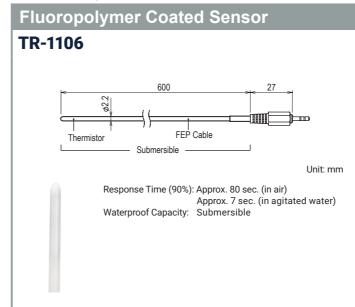


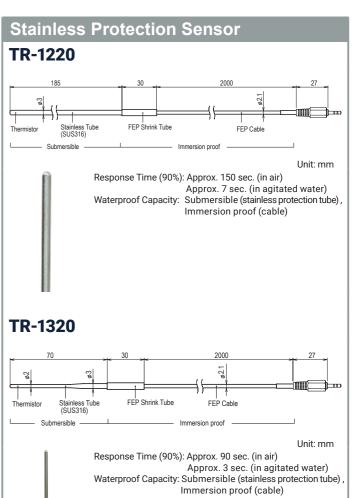




Measurement Range: -60 to 155°C Accuracy: Avg. ±0.5°C at -40 to 80°C, Avg. ±1.0°C at -60 to -40°C / 80 to 100°C, Avg. ±2.0°C at 100 to 155°C

Note: Can be extended by 3 meters with the Extension Cable TR-1C30 / TR-5C10



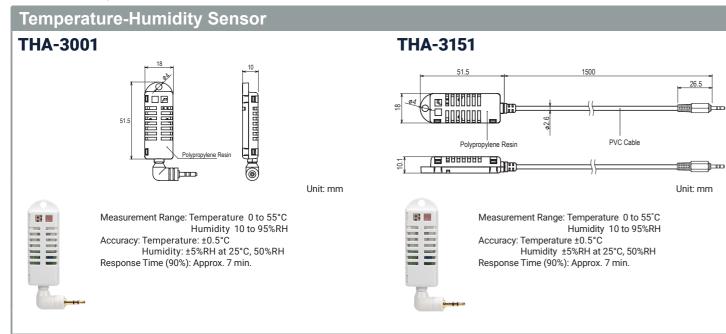


Temperature-Humidity Sensors for TR-72nw / 72nw-S

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.

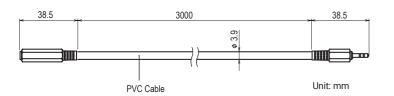
Note: Can be extended by 9 meters with the Extension Cable TR-1C30 $\,$ / TR-5C10 $\,$



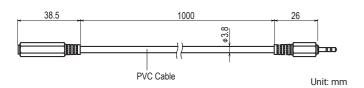
High Precision Temp-Humidity Sensors SHA-3151 Measurement Range: Temperature $\,$ -25 to 70°C Humidity 0 to 99%RH 26.5 When continually used in environments with temperatures above 60°C, accuracy of humidity measurements will decrease over time. Also, humidity cannot be measured at temperatures below -20°C. ±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 Unit: mm

Sensor Extension Cables

TR-1C30



TR-5C10



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 Conditions for Use:

Temperature sensors can use up to 3 meters of extension cables. Temp-Humidity sensors can use up to 9 meters of extension cables.

AC Adaptors

AD-05A2



Input: AC 100 - 240 V Output: DC 5 V, 1 A Frequency: 50 / 60 Hz Cable Length: 1.5 m

AD-05C2

(Type C Plug)

USB Mini-B Type



Input: AC100-240V Output: DC5V, 1A Frequency: 50 / 60 Hz Cable Length: 1.5 m

Note: When using with TR-7nw Series the logger body will become hot. Also note that in case of the TR-71nw, the data logger itself will generate heat and the internal sensor will measure a temperature higher than actual; we recommend using an external temperature sensor.

Wall Attachment

TR-07K2



Included Items: Lock Screws for fastening to wall, Double-Sided Adhesive Tape

Communication Cable

US-15C

For Communication with PC

Cable Length: 1.5m



USB Mini-B Type

SO-TD1 T&D Software

Software for Purchase



Optional DVD-ROM that contains the Windows software for current T&D products.

TR7 for Windows T&D Data Server T&D Graph etc.

tandd.com

- $\bullet\,$ The colors of the product in this document may vary from actual colors.
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