





# TR-7nW series





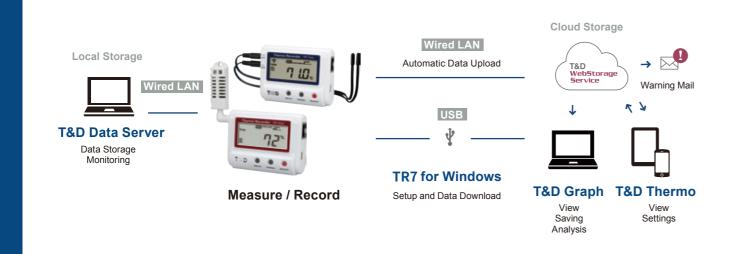


Data transmission via wired LAN ensures **Stable** and **reliable** transfer to T&D's **Cloud Service** 

( 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

#### **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.

www.mvi\_sonsores.com

## **MyJ Sensores**

Specification  Measurement Channels		TR-71nw	TR-72nw Temperature 1ch, Humidity 1ch		TR-72nw-S Temperature 1ch, Humidity 1ch		TR-75nw
		Temperature 2ch Thermistor					Temperature 2ch
Sensor			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
Internal		-10 to 60°C (*2)	_	_	_	_	_
Measurement Range	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)	K -199 to 1370 °C J -199 to 1200 °C T -199 to 400 °C E -199 to 1000 °C S - 50 to 1760 °C 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: ±(0.5 °C + 0.3 % of reading) at -100 °C or above Type S, R: ±(1.5 °C + 0.3 % of reading) at 100 °C or above  Cold Junction Compensation ±0.5 °C at 10 to 40 °C ±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, PoE IEEE 802.3af (*5)					
Battery Life (*6)		Approx. 10 days to 1.5 years (depends on Auto-upload interval)  Approx. 10 days to 1.5 years (depends on Auto-upload interval)  Approx. 10 days to 1 y  (depends on Auto-upload interval)					
Dimensions		H 58 mm x W 78 mm x D 26 mm					
Weight		Approx. 55 g					
Operating Environment		Temperature: -10 to 60°C(*7) , Humidity: 90 %RH or less (no condensation)					
Accessories		Temperature Sensor TR-0106 x 2	Temperature-Humidity Sensor THA-3001 x 1		High Precision Temperature-Humidity Sensor SHA-3151 x 1		(Sensor not provided)
		AA Alkaline Battery LR	Battery LR6 x 2, Registration Code Label, USB Mini-B Cable US-15C, Manual Set (Warranty				
Software (*8)		PC Software (Windows) TR7 for Windows, T&D Graph, T&D Data Server Mobile Application (iOS, Android) T&D Thermo					

<sup>\*1:</sup>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

The specifications listed above are subject to change without notice.

heat and the internal sensor will report a temperature much higher than ambient; we recommend using an external temperature sensor in this case.

<sup>\*3:</sup>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

<sup>\*4:</sup>HTTP client. Proxy supported

<sup>\*5:</sup>When using PoE, use of STP (shielded) cables may cause PoE failure or device malfunction. We strongly recommend using UTP cables.

<sup>\*6:</sup>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.

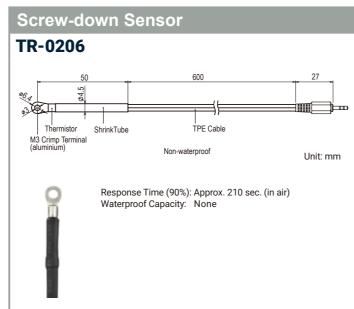
<sup>\*7:-10</sup> to 45°C when using external power.

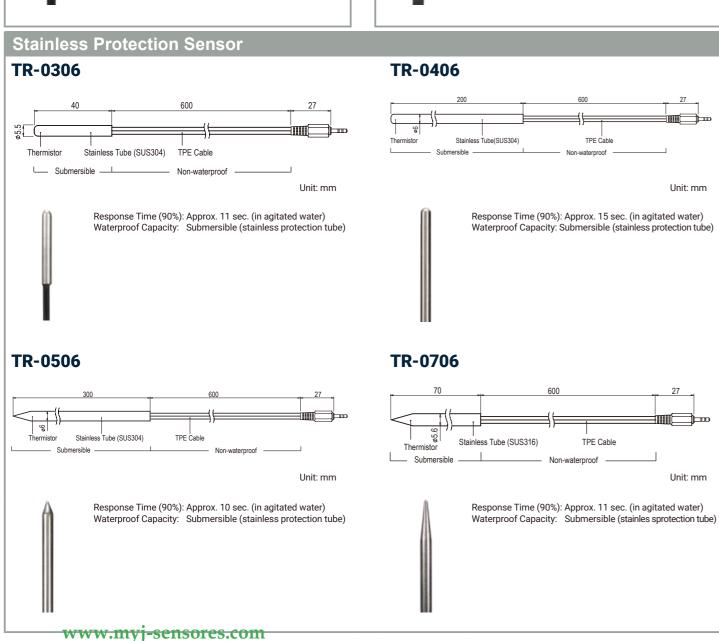
<sup>\*8:</sup> Software on CD-ROM is not supplied with the product. Free software download and information on OS compatibility is available on the Software page of our website at info@myj-sensores.com

## 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

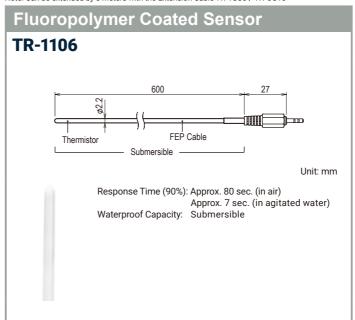
# Note: Can be extended by 3 meters with the Extension Cable TR-1C30 / TR-5C10 TPE Resin-Shielded Sensor TR-0106 Unit: mm Non-waterproof Response Time (90%): Approx. 190 sec. (in air) Waterproof Capacity: None

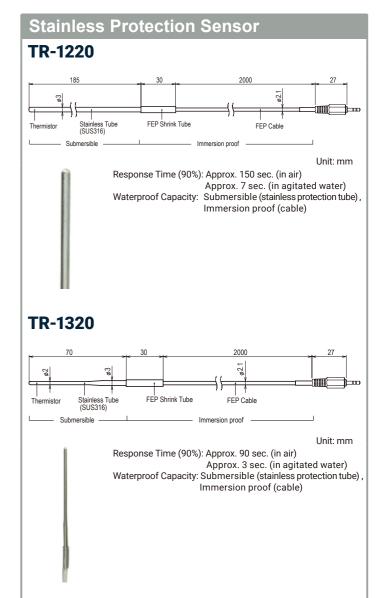




Measurement Range: -60 to 155°C Accuracy: Avg. ±0.5°C at -40 to 80°C, Avg. ±1.0°C at -60 to -40°C / 80 to 100°C, Avg. ±2.0°C at 100 to 155°C

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



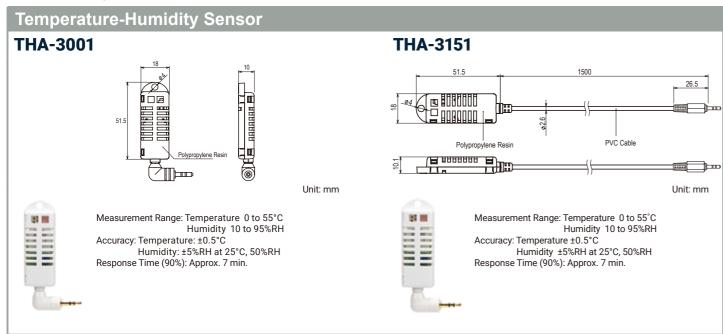


## Temperature-Humidity Sensors for TR-72nw / 72nw-S

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.

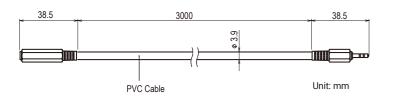
Note: Can be extended by 9 meters with the Extension Cable TR-1C30  $\,$  / TR-5C10  $\,$ 



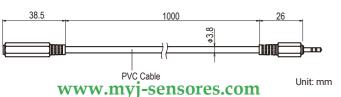
## **High Precision Temp-Humidity Sensors SHA-3151** Measurement Range: Temperature $\,$ -25 to 70°C Humidity 0 to 99%RH 26.5 When continually used in environments with temperatures above 60°C, accuracy of humidity measurements will decrease over time. Also, humidity cannot be measured at temperatures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

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 AC Adaptor (FCC)



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

Compatible Devices: Data Logger

TR-71nw / 72nw / 72nw-S / 75nw

### AD-05C2

#### AC Adaptor (CE)



USB Mini-B Type Input: AC100-240V Output: DC5V, 1A Frequency: 50 / 60 Hz Cable Length: 1.5 m Plug Type: C Compatible Devices: Data Logger

TR-71nw / 72nw / 72nw-S / 75nw

Note: When using with TR7 Series the logger body will become hot. Also note that the data logger itself will generate heat and the internal sensor will measure a temperature higher than actual; we

## **Wall Attachment**

## TR-07K2



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

## **Communication Cable**

## **US-15C**

For Communication with PC

USB Mini-B Type Cable Length: 1.5m



## **Software for Purchase**

T&D Graph

#### SO-TD1 **T&D Software**



Software Included: RTR500BW for Windows (US/EU) RTR500BM for Windows (US/EU) RTR500BC for Windows (US/EU) RTR-500DC for Windows (US/EU) RTR-600 Settings Utility (US) TR7 for Windows CO2 Recorder for Windows Illuminance UV Recorder for Windows MCR for Windows T&D Recorder for Windows T&D Data Server

Note: Optional DVD-ROM that contains the Windows software for current T&D products. Software can be downloaded from T&D's Website, but for those who prefer, a DVD is available

## tandd.com



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