USB Connectable Loggers

for Variety of Measurements







Three Loggers to meet your Environmental Measurement Needs!

TR-7Ui Series Features





The TR-7Ui series data loggers are designed to simultaneously measure and record a variety of measurements. In addition to temperature and humidity, barometric pressure, Illuminance and UV intensity, and CO2 concentration are available.

Large Logging Capacity: 8000 Data Sets



One data set consists of readings for all channels in that type of unit. If set at a recording interval of 60 minutes, it gives you one year's worth of measurements.

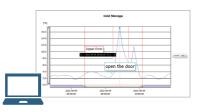


The USB connection makes it easy not only to transfer recorded data directly from the data logger to your computer, but to monitor current readings on the PC screen

Easy Data Download to PC

via USB

Free-of-Charge Software



For setup and data analysis, all necessary software is available for free download from our website Illuminance UV for Windows for TR-74Ui CO2 Recorder for Windows for TR-76Ui T&D Recroder for Windows(TR-5,7xU) for TR-73U Data Analysis with T&D Graph



Full Range of Sensors

For improved environmental adaptability,

reliability, and accurate measurements

the TR-74Ui-S/76Ui-S models can be

used with our high-precision temp/

TR-73U also has a wide range of

temperature sensor options.

humidity sensors.

https://tandd.com/product/series/tr7ui.html

Product Lineup



Illuminance: 0 to 130 klx UV Intensity: 0 to 30 mW/cm² Temperature: 0 to 55 °C Humidity: 10 to 95 %RH

CO2, Temperature, Humidity (1ch each)

TR-76Ui

TR-76Ui-S : High-Precision Type



CO2: 0 to 9999 ppm Temperature: 0 to 55 °C Humidity: 10 to 95 %RH

Barometric Pressure, Temperature, Humidity (1ch each)

TR-73U



Barometric-Pressure: 750 to 1100 hPa Temperature: 0 to 50 °C Humidity: 10 to 95 %RH

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TR-74Ui-S : High-Precision Type



Illuminance: 0 to 130 klx UV Intensity: 0 to 30 mW/cm² Temperature: -25 to 70 °C Humidity: 0 to 99 %RH (above -20 °C)



CO2: 0 to 9999 ppm Temperature: -25 to 70 °C Humidity: 0 to 99 %RH (above -20 °C)

info@myj-sensores.com

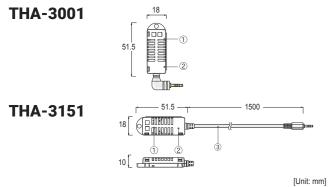
Temperature-Humidity Sensors for TR-74Ui / 74Ui-S / 76Ui / 76Ui-S

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.

Condition 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.



Materials: 1) Temp-Humidity Sensor 2) Polypropylene Resin 3) PVC Cable

Temperature-Humidity Sensors for TR-73U

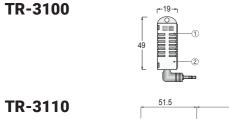
Measurement Range: Temperature 0 to 50 °C, Humidity 10 to 95 %RH Accuracy: Temperature Avg. ±0.3 °C

Humidity ±5 %RH at 25 °C and 50 %RH

Response Time (90%): Approx. 7 min.

Condition 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



TR-3110

[Unit: mm] Materials: 1) Temp-Humidity Sensor 2) Polypropylene Resin 3) Vinyl chloride-shielded wire Note: TR-3110 does not support the use of an extension cable.

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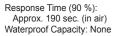
1500

Temperature Sensors for TR-73U

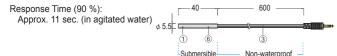
Measurement Range: -40 to 110 °C

Accuracy: Avg. ±0.3 °C at -20 to 80 °C, Avg. ±0.5 °C at -40 to -20 °C / 80 to 110 °C

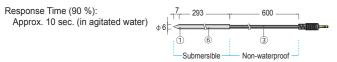
TR-0106 TPE Resin-Shielded Sensor



TR-0306 Stainless Protection Sensor



TR-0506 Stainless Protection Sensor

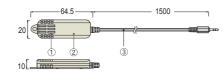


SHA-3151 High-Precision Type

Measurement Range: Temperature -25 to 70 °C, Humidity 0 to 99 %RH 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 Long Term Stability: ±1 %RH/yr, ±0.1 °C/yr Response Time (90 %): Approx. 7 min.

Condition for Use: Do not expose to condensation, dampness, corrosive gases or organic solvents.



[Unit: mm]

Materials: 1) Temp-Humidity Sensor 2) ABS Resin 3) Halogen-Free Flame Resistant Sheath Cable

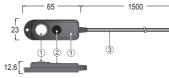
When continually used in environments with temperatures above 60 °C, accuracy of humidity measurements will decrease over time. Also, humidity cannot be measured at temperatures below -20 °C.

Illuminance-UV Sensor for TR-74Ui / 74Ui-S

ISA-3151

Measurement Range: Illuminance 0 to 130 klx, UV Intensity 0 to 30 mW/cm² Accuracy *1: Illuminance ±5 % (10 lx to 100 klx at 25 °C, 50 %RH) UV Intensity ±5 % (0.1 to 30 mW/cm² at 25 °C, 50 %RH) Operating Environment *2 : Temperature -10 to 60 °C

Humidity 90 %RH or less (no condensation)



Materials: 1) Polycarbonate 2) Glass 3) Vinyl chloride-shielded wire

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

*2: Do not expose to condensation, dampness, corrosive gases, or organic solvents.

Sensor Extension Cables

TR-1C30 or TR-5C10

Compatible Sensors:

Temperature Sensor: TR-0106, TR-0206, TR-0306, TR-0406, TR-0506, TR-0706 Temp-Humidity Sensor: THA-3001, THA-3151, SHA-3151, TR-3100 Illuminance-UV Sensor: ISA-3151 Temperature Durability: -25 to 60 °C Waterproof Capacity: None

> 3000 (TR-1C30) 1000 (TR-5C10) _____ ¢3.9

PVC Cable



Note: 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).

Communication Cables

US-15C USB Communication Cable



TR-07C Serial Communication Cable

For communication with PC Connector Type: Specialized Connector D-sub 9 pin

[Unit: mm]

[Unit: mm]

SO-TD1 T&D Software

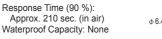
Software DVD-ROM

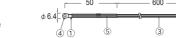
Includes Windows application software for all the current T&D products.

T&D Recorder for Windows (TR-5, 7xU) CO2 Recorder for Windows Illuminance UV Recorder for Windows T&D Graph, etc.

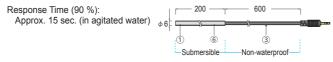


TR-0206 Screw-down Sensor

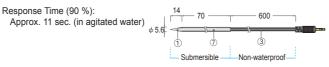




TR-0406 Stainless Protection Sensor



TR-0706 Stainless Protection Sensor



Materials: ① Thermistor ② TPE Mold ③ TPE Cable ④ M3 Crimp Terminal (aluminium) ⑤ ShrinkTube ⑥ Stainless Tube (SUS304) ⑦ Stainless Tube (SUS316)

4

Wall Attachments

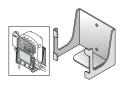
TR-07K2 for TR-74Ui / 74Ui-S / 73U

Accessories: Lock Screw x 2, Double-Sided Adhesive Tape Materials: Polycarbonate



AT-76K1 for TR-76Ui / 76Ui-S

Accessories: Lock Screw x 2 Materials: Aluminum



AC Adaptors for TR-76Ui / 76Ui-S

AD-06A1

Cable Length: 1.8 m Input: AC 100 - 240 V Output: DC 6 V 500 mA Frequency: 50 / 60 Hz Plug Type: A



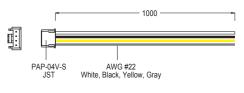
AD-06C1

Cable Length: 1.8 m Input: AC 100 - 240 V Output: DC 6 V 1.0 A Frequency: 50 / 60 Hz Plug Type: C



Alarm Connection Cable for TR-76Ui / 76Ui-S

AC0101



[Unit: mm]

		TR-73U			
	Temp-Humidity S	Barometric			
Sensor	Thermistor	Polymer Resistance	Pressure Sensor (Internal)		
Measurement Channels	Temperature 1ch	Humidity 1ch	Barometric Pressure 1ch		
Measurement Units	°C, °F	%RH	hPa		
Measurement Range	0 to 50 °C (Supplied Sensor) -40 to 110 °C (Optional Sensor)	10 to 95 %RH	750 to 1100 hPa		
Accuracy	Avg. ±0.3 °C at 0 to 50 °C	±5 %RH at 25 °C, 50 %RH	±1.5 hPa		
Measurement Resolution	0.1 °C	1 %RH	0.1 hPa		
Responsiveness	Response Time (Approx. 7 min.	90 %):	4 or 40 seconds if recording interval is 10 sec. or more.		
Logging Capacity	8,000 data sets (One data set consists of readings for all channels in that type of unit.)				
Recording Interval	Select from 15 choices: 1, 2, 5, 10, 15, 20, 30 sec. 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.				
Communication Interfaces	USB Communication: USB 2.0 (Mini-B connector) Serial Communication *2				
Power	AA Alkaline Battery LR6 x 1				
Battery Life *3	Approx. 10 months				
Dimensions	H 55 mm x W 78 mm x D 18 mm				
Weight	Approx. 40 g				
Operating Environment	Temperature: -10 to 60 °C Humidity: 90 %RH or less (no condensation)				
Included Items	AA Alkaline Battery LR6, USB Mini-B Cable US-15C, Temperature-Humidity Sensor TR-3100, Manual Set (Warranty Included)				
	(Warranty Include	ed)			

*1: It is also possible to measure temperature with the internal sensor. However, the measurement range is restricted to the operating environment for the whole

device. *2: Customers wishing to write their own software, please contact your local distributor for the serial communications protocol specifications. (Note: Optional serial communication cable TR-07C is also required.)

*3: Battery life varies depending upon multiple factors including ambient temperature, recording interval, frequency of communication, 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.

*4: Free software download and information on OS compatibility is available on the Software page of our website (https://tandd.com/software/).

The specifications listed above are subject to change without notice.

	TR-74Ui TR-74Ui-S						
		Temperature-H	perature-Humidity Sensor				
	THA-3151		SHA-3151 (High-Precision Type)				
Sensor	Thermistor	Polymer Resistance	Thermistor	Polymer Resistance			
Measurement Channels	Temperature 1ch	Humidity 1ch	Temperature 1ch	Humidity 1ch			
Measurement Units	°C, °F	%RH	°C, °F	%RH			
Measurement Range	0 to 55 °C	10 to 95 %RH	–25 to 70 °C	0 to 99 %RH *1			
Accuracy	±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			
Measurement Resolution	0.1 °C	1 %RH	0.1 °C	0.1 %RH			
Responsiveness	Response Time Approx. 7 min.	(90 %):	Response Time (90 %): Approx. 7 min.				
		Illuminance	-UV Sensor				
Sensor	ISA-3151						
Measurement Channels	Illuminance: 1 ch UV intensity: 1 ch						
Measurement Units	Illuminance: lx, klx UV Intensity: mW/cm ²						
Measurement Range	Illuminance: 0 lx to 130 klx UV Intensity: 0 to 30 mW/cm ²						
Units of Cumulative Measurement	Cumulative Illuminance: lxh, klxh, Mlxh Cumulative amount of UV Light: mW/cm²h, W/cm²h						
Display Range of Cumulative Measurement	Illuminance: 0 lxh to 90 Mlxh UV Intensity: 0 mW to 62 W/cm ² h						
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 *2						
Relative Spectral Response	Illuminance: Approximated to the CIE standard response function V (λ) UV Intensity: 260 to 400 nm (UVA / UVB)						
Measurement Resolution	Illuminance: Minimum of 0.01 lx UV Intensity: Minimum of 0.001 mW/cm ²						
Responsiveness	Response Time (90 %): 3 sec. at recording interval of 1 sec. or 6 sec. at other intervals						
Logging Capacity	8,000 data sets (One data set consists of readings for all channels in that type of unit.)						
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, Recording Status, Recording Mode, Battery Life Warning, etc. Measurements: Illuminance / UV Intensity / Temperature / Humidity / Cumulative Illuminance / Cumulative amount of UV Light Display Pattern: Alternating or Fixed display Display Digits: Up to 4 digits						
Communication Interfaces	USB Communication: USB 2.0 (Mini-B connector) Serial Communication *3						
Power	AA Alkaline Battery LR6 x 1						
Battery Life *4	Approx. 6 months						
Dimensions	H 55 mm x W 78	mm x D 18 mm					
Weight	Approx. 40 g						
Operating Environment	Temperature: -10 to 60 °C Humidity: 90 %RH or less (no condensation)						
Included Items	AA Alkaline Battery LR6, USB Mini-B Cable US-15C, Illuminance-UV Sensor ISA-3151, Temperature-Humidity Sensor THA-3151 or SHA- 3151, Manual Set (Warranty Included)						
Software *5	PC Software (Wi Illuminance UV F	ndows) Recorder for Wind	ows, T&D Graph				
1: When continually used in	environments with te	emperatures above 6	60 °C, accuracy of h	umidity			

*1: 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.

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

*3: Customers wishing to write their own software, please contact your local distributor for the serial communications protocol specifications. (Note: Optional serial communication cable TR-07C is also required.)

*4: Battery life varies depending upon multiple factors including ambient temperature, recording interval, frequency of communication, 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.
*5: Free software download and information on OS compatibility is available on the Software page of our website (https://battery.org/actual.com/actual

website (https://tandd.com/software/).

The specifications listed above are subject to change without notice.

6

	TR-	76Ui	TR-7	6Ui-S		
		Temperature-H	lumidity Sensor			
	THA-3001 SHA-3151 (High-Precision					
Sensor	Thermistor	Polymer Resistance	Thermistor	Polymer Resistand		
Measurement Channels	Temperature 1ch	Humidity 1ch	Temperature 1ch	Humidity 1ch		
Measurement Units	°C, °F	%RH	°C, °F	%RH		
Measurement Range *1	0 to 55 °C	10 to 95 %RH	-25 to 70 °C	0 to 99 %		
Accuracy	±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 30 to 80		
Measurement Resolution	0.1 °C	1 %RH	0.1 °C	0.1 %RH		
Responsiveness	Response Time (90 %):Response TimeApprox. 7 min.Approx. 7 min.		Response Time (9 Approx. 7 min.	90 %):		
	CO2 Sensor (Internal)					
Sensor	NDIR					
Measurement Channels	CO2 Concentration 1ch					
Measurement Units	ppm					
Measurement Range	0 to 9,999 ppm					
Accuracy	±(50 ppm + 5 % of reading) at 5,000 ppm or less *3					
Measurement Resolution	Minimum of 1 ppm					
Responsiveness	Response Time (90 %): Approx. 1 min.					
Logging Capacity	8,000 data sets (One data set consists of readings for all channel type of unit.)					
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 recording when capacity is full)					
LCD Display Items	Measurements, Recording Status, Recording Mode, Battery Level Measurements: CO2 concentration, Temperature or Humidity (fix alternating display)					
Communication Interfaces	USB Communication: USB 2.0 (Mini-B connector) Serial Communication *4					
External Alarm Terminal *5	Output Terminal: Open Drain Output (Voltage when OFF: DC less than 30 V / Current when ON: less th / Resistance when ON: about 15 Ω)					
Power	AC Adaptor (AD-06A1 or AD-06C1), AA Alkaline Battery LR6 x 4					
Battery Life	Approx. 2 days (batteries only without AC adaptor) *6					
Dimensions	H 96 mm × W 66 mm × D 46 mm (excluding protrusions and sense					
Weight	Approx. 120 g					
Operating Environment	Temperature: 0 to 45 °C Humidity: 90 %RH or less (no condensation)					
Included Items	AA Alkaline Battery LR6 x 4, AC Adaptor AD-06A1 or AD-06C1, US Cable US-15C, Temperature-Humidity Sensor THA-3001 or SHA-3 Manual Set (Warranty Included)					
Software *7	PC Software (Windows) CO2 Recorder for Windows, T&D Graph					
*1: Make sure to use the dat *2: When continually used in						

*2: 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.
 *3: Stated value is the measurement accuracy of the CO2 sensor when Auto Calibration is operating properly. A change in atmospheric pressure directly influences the reading of CO2 which can cause measurement errors; a decrease in pressure by 10 hPa results in a relative decrease in CO2 by 1.6 %. In such a case, we recommend carrying out the "Atmospheric Pressure Correction" function found in CO2 Recorder for Windows.

*4: Customers wishing to write their own software, please contact your local distributor for the serial communications protocol specifications. (Note: Optional serial communication cable TR-07C is also required.)

*5: In order to use the external alarm terminal, please purchase the optional alarm connection cable (AC0101).
*6: Battery life varies depending upon multiple factors including ambient temperature, recording interval, frequency of communication, 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.

*7: Free software download and information on OS compatibility is available on the Software page of our website (https://tandd.com/software/).

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MyJ Sensores TR-7Ui Series - Specifications



MyJ Sensores

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