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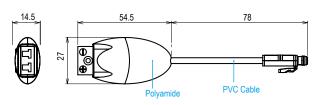
Input Modules

TCM-3010



Provided with RTR-505-TC, RTR-505-TCL and TR-55i-TC

Thermocouple Module



[Unit: mm]

Compatible Sensors	Thermocouple: Type K, J, T, S
Measurement Range	within the sensor heat-durability range only
Measurement Resolution	Type K, J, T: 0.1°C Type S: about 0.2°C
Accuracy Accuracy Thermocouple	-40 to 10°C: ±0.5°C 10 to 40°C: ±0.3°C 40 to 80°C: ±0.5°C
Thermocouple Measurement *	Type K, J, T: ±0.3°C+0.3% of reading Type S: ±1 °C+0.3% of reading
Operating Environment	Temperature – 40 to 80°C Humidity 90%RH or less (no condensation)
Sensor Connection	Make sure to use a thermocouple sensor with a miniature thermocouple plug attached. T&D does not make available these plugs or sensors for sale.
Notes	Can be extended by 3 meters with the Extension Cable TR-3C30

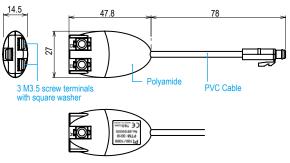
^{*} Does not include inaccuracies of sensor actually connected.

PTM-3010



Provided with RTR-505-Pt, RTR-505-PtL and TR-55i-Pt

Pt Module



Pt100 (3-wire, 4-wire) Pt1000 (3-wire, 4-wire) Pt1000 (3-wire, 4-wire) In the case of a 4-wire sensor, one wire will be left unuse Measurement Resolution Measurement Accuracy* Ambient Temperature of Input Module -40 to 10°C: ±0.5°C + 0.3% of reading 10 to 40°C: ±0.3°C + 0.3% of reading 40 to 80°C: ±0.5°C + 0.3% of reading	
Ambient Temperature of Input Module -40 to 10°C: ±0.5°C + 0.3% of reading 10 to 40°C: ±0.3°C + 0.3% of reading	ed.
Measurement Accuracy * -40 to 10°C: ±0.5°C + 0.3% of reading 10 to 40°C: ±0.3°C + 0.3% of reading	
Operating Environment Temperature –40 to 80°C, Humidity 90%RH or less (no	condensation)
Accessories Protection Cover	
Notes Can be extended by 3 meters with the Extension Cable ⁻	ΓR-3C30

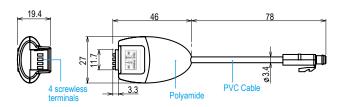
^{*} Does not include inaccuracies of sensor actually connected.

VIM-3010



Provided with RTR-505-V, RTR-505-VL and TR-55i-V

Voltage Module



[Unit: mm]

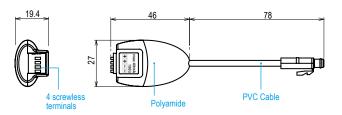
Measurement Item	Voltage 0 to 22 V
Measurement Resolution	Up to 400 mV : 0.1 mV Up to 800 mV : 0.2 mV Up to 999 mV : 0.4 mV Up to 3.2 V : 1 mV Up to 6.5 V : 2 mV Up to 9.999 V : 4 mV Up to 22 V : 10 mV
Measurement Accuracy	Ambient Temperature of Input Module -40 to 10°C: ±1 mV + 0.5% of reading 10 to 40°C: ±0.5mV + 0.3% of reading 40 to 80°C: ±1mV + 0.5% of reading
Preheat Function	Voltage Range (Preheating): 3V to 20V100mA Time Range (Preheating): 1 to 999 seconds (in units of one-second) Capacitor Load: 330µF or less
Operating Environment	Temperature: -40 to 80°C , Humidity: 90%RH or less (no condensation)
Notes	Can be extended by 3 meters with the Extension Cable TR-3C30

AIM-3010



Provided with RTR-505-mA, RTR-505-mAL and TR-55i-mA

4-20mA Module



[Unit: mm]

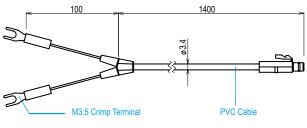
Input Resistance	0 to 20mA Operational up to 40 mA
Measurement Resolution	0.01mA
Measurement Accuracy	Ambient Temperature of Input Module -40 to 10°C: ±0.1mA + 0.3% of reading 10 to 40°C: ±0.05mA + 0.3% of reading 40 to 80°C: ±0.1mA + 0.3% of reading
Input Resistance	100Ω ±0.3Ω
Sensor Connection	Cable Insertion Connection: Plus(+) 2 Parallel Terminals, Minus(-) 2 Parallel Terminals: Total 4 Terminals
Compatible Wires	Single wire: φ0.32 to φ0.65mm (AWG28 to AWG22), φ0.65mm (AWG22) recommended Twisted wire: 0.32mm2 (AWG22), φ0.12mm or more in diameter Strip length: 9 to 10mm
Operating Environment	Temperature: -40 to 80°C , Humidity: 90%RH or less (no condensation)
Notes	Can be extended by 3 meters with the Extension Cable TR-3C30

PIC-3150



Provided with RTR-505-P, RTR-505-PL and TR-55i-P

Pulse Input Cable

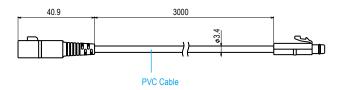


[Unit: mm]

TR-3C30



Input Module Extension Cable



Temperature Durability Waterproof Capacity	-25 to 60°C Splash proof (rated for use in daily life)
Compatible Sensors / Modules	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.

Data Logger Maintenance Sets

TR-00P1

Maintenance Set

Screw



Compatible Devices: RTR-501 / 502 / 503 / 505 / 507S, TR-51i / 52i / 55i, TR41 / 42 Discontinued-Compatible Devices: RTR-5 Series, TR-51/51A/52, RTR-507 Included:

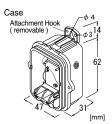
Rubber Packing , Silica Gel, Double-Sided Adhesive Tape, Lock

RTR-500A2

External Power Adaptor Kit

Internal Ni-MH battery provides about 4 days*2 of AC failure backup.





AC Adaptor AD-06A1 (FCC) or AD-06C1 (CE)

Compatible Devices: RTR-502 / 503 / 505 / 507S, TR42 Discontinued-Compatible Device: RTR-507

Voltage Input: DC6V
Charging Method: Trickle Charge
Operating Temperature: 0 to 60°C
Waterproof Capacity: None
Weight: About 37g (without AC Adaptor)
Included:

AC Adaptor (AD-06A1 or AD-06C1) , Case and Attachment Hook, Rubber Packing , Lock Screwx2

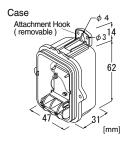
- *1: RTR-500A2 should not be used with the RTR-501 and TR41 as it will cause the RTR-501 and TR41 to display a higher than actual temperature reading of up to 3°C.
- *2: Varies depending on the amount of charge in the Ni-MH battery.

RTR-500B1

About 4 years of battery life



Large Capacity Battery Kit



Compatible Devices: RTR-501 / 502 / 503 / 505 / 507S, TR41 / 42

Discontinued-Compatible Devices:

Power: Lithium Battery x1 (LS26500) *1 Battery Life: About 4 years *2 Waterproof Capability: Splash proof Operating Temperature: -40 to 80°C *3 Weight: About 75g (including Lithium Battery) Included:

Maintenance Set TR-00P1, Case and Attachment Hook

- *1: When using RTR-500B1 it is necessary to purchase Lithium Battery (LS26500). For details, contact your local authorized distributor.
 *2: Battery Life varies depending on measuring environment, recording interval,
- *2: Battery Life varies depending on measuring environment, recording interval, transmission frequency, and ambient temperature. The battery life estimated here is calculated using a new battery under normal operating conditions and in no way should be understood as a guarantee of battery life.
- *3: Operating temperature depends on the specifications for the data logger being used

Communication Cables

US-15C

USB Mini-B Cable

Cable Length: 1.5m



For Communication with PC

TR-6C10

Serial Communication Cable



Provided with TR-57DCi Cable Length: 1.0m

For Communication between Data Collector and Data Logger

RTR-500DC ⇔ RTR-574 / 576

 $\begin{array}{ll} \text{TR-57DCi} & \Leftrightarrow \frac{\text{TR-74Ui}\,/\,76\text{Ui}\,/\,73\text{U},\,\text{TR-71Ui}\,/\,72\text{Ui},}{\text{TR-71U}\,/\,72\text{U}} \end{array}$

RTR-57U ⇔ TR-71U / 72U

TR-57U ⇔ TR-71Ui / 72Ui / 74Ui / 76Ui / 73U / 77Ui,

TR-71U / 72U, TR-71S / 72S

TR-07C

Serial Communication Cable



Cable Length: 1.5 m Connector: D-sub9pin

For Communication between PC and Data Logger * PC ⇔ TR-74Ui / 76Ui / 73U

For Communication between PC and Data Collector * PC ⇔ TR-57DCi, RTR-500DC, RTR-500

* Customers wishing to write their own software, please contact your local distributor for the serial communications protocol specifications.

TR-4C10

Serial Communication Cable



Cable Length: 1.0m

For Communication between Data Collector and Data Logger

TR-57DCi , RTR-57U \Leftrightarrow VR-71, TR-71S / 72S

TR-57U ⇔ VR-71

RTR-57C \Leftrightarrow VR-71, TR-71S / 72S TR-57C \Leftrightarrow TR-71U / 72U

Software for Purchase

SO-15C1

TR-7wb/nw for Windows Software Set



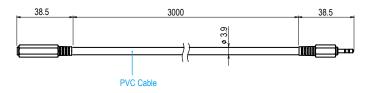
Items Included: CD-ROM USB Mini-B Cable (US-15C)

The TR-7wb/nw series software can be downloaded via the internet, but for those who prefer, a CD and USB cable set is available for purchase.

TR-1C30



Sensor Extension Cable

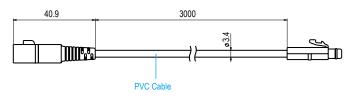


	[Unit: mm]
Temperature Durability	-25 to 60°C
Waterproof Capacity	None
Compatible Sensors	Temperature Sensor: TR-1106, TR-1220, TR-1320, TR-0106, TR-0206, TR-0306, TR-0406, TR-0506, TR-0706 Temp-Humidity Sensor: THA-3001, THA-3151, SHA-3151 (Previous Model HHA-3151) Illuminance-UV Sensor: ISA-3151 Input 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-2C30



Sensor Extension Cable



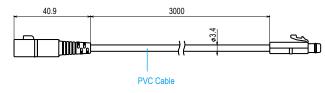
[Unit: mm]

Temperature Durability	-25 to 60°C
Waterproof Capacity	Splash proof (rated for use in daily life)
Compatible Sensors	Temperature Sensor: TR-5101, TR-5106, TR-5220, TR-5320, TR-5420, TR-5530, TR-5620
Conditions for Use	Only one cable per sensor.

TR-3C30



Sensor / Input module Extension Cable

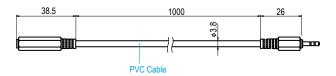


Temperature Durability	-25 to 60°C
Waterproof Capacity	Splash proof (rated for use in daily life)
Compatible Sensors / Modules	Temp-Humidity Sensor: SHB-3101 (Previous Model HHB-3101) Input Module: TCM-3010, PTM-3010, VIM-3010, AIM-3010, PIC-3150, PMP-3200
Conditions for Use	Only one cable per sensor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

TR-5C10



Sensor Extension Cable



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

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	Α
Compatible Devices	Data Logger: TR-7wb/nw Series* (Including S-Type), MCR Series
Discontinued- Compatible Devices	Data Logger: TR-71wf / 72wf / 72wf-S/ 72wf- H / 75wf, TR-72nw-H

AD-05C2



AC Adaptor (CE)

USB Mini-B Type

* 1	
Input	AC100-240V
Output	DC5V, 1A
Frequency	50 / 60 Hz
Cable Length	1.5 m
Plug Type	С
Compatible Devices	Data Logger: TR-7wb/nw Series* (Including S-Type), MCR Series
Discontinued-	Data Logger:
Compatible Devices	TR-71wf / 72wf / 72wf-S/ 72wf-H / 75wf, TR-72nw-H

^{*} When using with TR-7wb/nw 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 recommend using an external temperature sensor.

AD-06A1

AC Adaptor (FCC)



Provided with RTR-500AW / 500NW, TR-76Ui / 76Ui-S, RTR-576/576-S

Input	AC 100 to 240 V
Output	DC 6 V, 500 mA
Frequency	50 / 60 Hz
Cable Length	1.8 m
Plug Type	Α
Compatible Devices	Base Unit: RTR-500AW/500NW, RTR-500DC, RTR-500, TR-57DCi Data Logger: TR-76Ui, RTR-576 (Including S Type) External Power Adaptor Kit:

RTR-500A2

DiscontinuedCompatible
Devices

Base Unit:
RTR-50, RTR-57C,
Data Logger:

TR-76Ui-H, RTR-576-H, TR-700W Series, RTR-7 Series External Power Adaptor Kit: RTR-05A1

AD-06C1



Provided with RTR-500AW / 500NW, TR-76Ui / 76Ui-S, RTR-576/576-S

AC Adaptor (CE)

Input	AC 100 to 240 V
Output	DC 6 V, 500 mA
Frequency	50 / 60 Hz
Cable Length	1.8 m
Plug Type	С
Compatible Devices	Base Unit: RTR-500AW/500NW, RTR-500DC, RTR-500, TR-57DCi Data Logger: TR-76Ui, RTR-576 (Including S Type) External Power Adaptor Kit: RTR-500A2
Discontinued- Compatible Devices	Base Unit: RTR-50, RTR-57U Data Logger: TR-76Ui-H. RTR-576-H. TR-

700W Series, RTR-7 Series External Power Adaptor Kit:

AD-05A3

AC Adaptor (FCC)



Input	AC100-240V
Output	DC5V 3A
Frequency	50 / 60 Hz
Cable Length	1.2 m
Plug Type	Α
Compatible Devices	Base Unit: RTR-500MBS-A Battery Charger: RTR-600BD
Discontinued- Compatible Devices	Base Unit: RTR-500GSM, RTR-5W, WS-2 Data Logger: TR-7W Series, WDR-3

AD-05C1



AC Adaptor (CE)

Input	AC100-240V
Output	DC5V 2A
Frequency	50 / 60 Hz
Cable Length	1.6m
Plug Type	С
Compatible	Base Unit:
Devices	RTR-500MBS-A
Discontinued-	Base Unit:
Compatible	RTR-500GSM, RTR-5W,
Devices	WS-2
	Data Logger:
	TR-7W Series, WDR-3

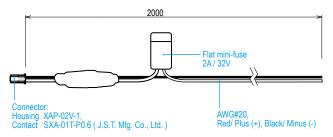
RTR-05A1

BC-0302

External Power Cable



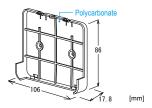
Provided with RTR-500MBS-A



Power Source Conditions	Voltage DC 10 to 24 V Current MAX 2A
Notes	Prepare a battery that meets the above conditions.
Compatible Devices	Base Unit: RTR-500MBS-A

TR-5WK1





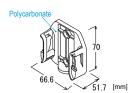
Compatible Devices: RTR-500NW / 500AW Discontinued-Compatible Devices: WDR-3, WS-2, RTR-5W

Included: Lock Screws for fastening to wall,

Lock Screw for fastening the device, Double-Sided Adhesive Tape

TR-05K3





Compatible Devices: TR-51i/52i/55i, RTR-501/502/503/ 505/507S, TR41/42 Discontinued-Compatible Devices: RTR-507, RTR-51A/52A/53A, RTR-52Pt, RVR-52, TR-51S/52S,

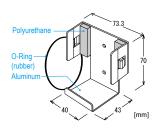
Included:

TR-51/51A/52

Lock Screws for fastening to wall Double-Sided Adhesive Tape

TR-5GK1

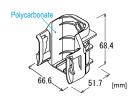




Compatible Device: RTR-500MBS-A Included: O-Ring, Lock Screws, Double-Sided Adhesive Tape

TR-05K3L



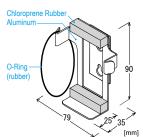


Compatible Devices: RTR-501L/ 502L / 503L / 505L / 507SL, TR45, TR41/42* Discontinued-Compatible Devices: RTR-507L, RTR-51AL/52AL/53AL, RTR-52PtL, RVR-52L Included:

Lock Screws for fastening to wall Double-Sided Adhesive Tape * TR41/42: Can be used when attaching Large Capacity Battery Kit or External Power Adaptor Kit.

AT-50K1

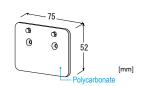




Compatible Device: RTR-500 Included: O-Ring, Lock Screws, Double-Sided Adhesive Tape

TR-07K2





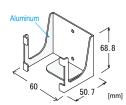
Compatible Devices:

TR-71wb / 72wb / 72wb-S / 75wb, TR-71nw / 72nw / 72nw-S / 75nw, TR-74Ui / 73U, RTR-574 / 574-S Discontinued-Compatible Devices: TR-71wf / 72wf / 72wf-S / 75wf, TR-74Ui-H, RTR-574-H TR-700W Series, TR-71Ui / 72Ui / 77Ui, TR-71U / 72U Included:

Lock Screws for fastening to wall Double-Sided Adhesive Tape

AT-76K1





Compatible Devices: TR-76Ui / 76Ui-S, RTR-576 / 576-S Discontinued-Compatible Devices: TR-76Ui-H, RTR-576-H Included: Lock Screws for fastening to

Note: Cracking may occur if polycarbonate is exposed to strong impact at temperatures of -30°C or lower.