

# Wireless Data Logger RTR-5 Series Options



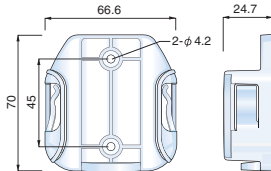
## Options

unit: millimeters

### Data Logger

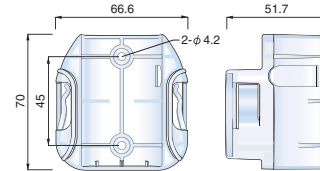
#### Wall Attachment: TR-05K3

Double-sided Adhesive tape x 1  
Lock Screw x 2  
Materials: Polycarbonate



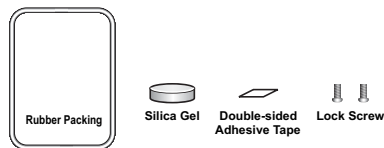
#### Wall Attachment: TR-05K3L

Double-sided Adhesive tape x 1  
Lock Screw x 2  
Materials: Polycarbonate



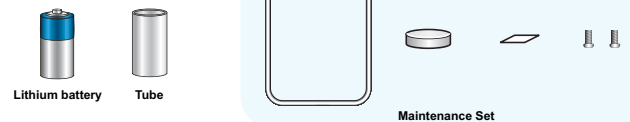
#### Maintenance Set: TR-00P1

Rubber Packing x 1  
Silica Gel x 1  
Double-sided Adhesive Tape x 1  
Lock Screw x 2



#### Battery Set for Low-Temperature use: TR-11P2

Lithium battery SAFT (LS14250) x 1  
Tube x 1  
Maintenance Set x 1

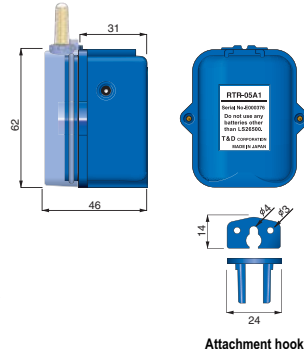


#### External Power Adaptor: RTR-05A1

Voltage Input: DC6V  
Back-up Power: Ni-MH Battery (In case of power loss)  
Back-up Time: 4 days (\*1)  
Charging Method: Trickle Charge  
Operating Temperature: 0 to 60°C  
Waterproof Capacity: None  
Weight: about 37g (without AC Adaptor)

Kit Contents:  
AC Adaptor (AD-0604) x 1  
Attachment hook x 1  
Rubber Packing x 1 (for back of main unit)  
Rubber Packing (small) x 1 (for AC Adaptor jack)  
Silica Gel Pack (drying agent) x 1  
Double-sided Adhesive Tape x 1 (for fastening Silica Gel)  
Screws x 2 (extras for fastening back of main unit)

Install by taking off the back cover and removing the battery.



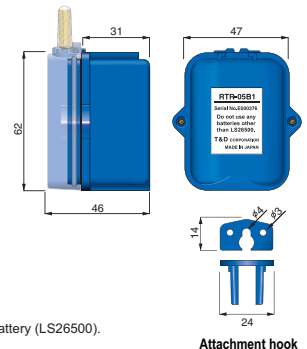
#### Large Capacity Battery Pack: RTR-05B1

Power: Lithium Battery x 1 (LS26500)  
Battery Life: about 2 years and 6 months (\*1)  
(Monitoring at 1 minute interval = about 20 months)  
Waterproof Capability: Splash proof  
Operating Temperature: -40 to 80°C (\*2)  
Weight: about 75g (including Lithium Battery)

Kit Contents:  
Attachment hook x 1  
Rubber Packing x 1 (for back of main unit)  
Silica Gel Pack (drying agent) x 1  
Double-sided Adhesive Tape x 1 (for fastening Silica Gel)  
Screws x 2 (extras for fastening back of main unit)

Install by taking off the back cover and removing the battery.

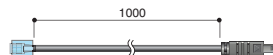
When using RTR-05B1, it is necessary to purchase Lithium Battery (LS26500).  
For details, contact your local representative or dealer.



### RTR-57U

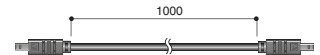
#### Serial Communication Cable: TR-4C10

Cable Length: 1.0m  
Compatible Models: TR-71S/72S/VR-71



#### Serial Communication Cable: TR-6C10

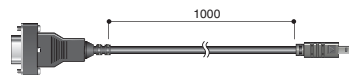
Cable Length: 1.0m  
Compatible Models: TR-71U/72U



### RTR-57U / RTR-50

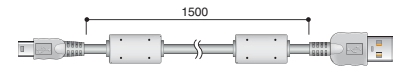
#### Serial Communication Cable: TR-07C

Cable Length: 1.0m



#### USB Communication Cable: US-15C

Cable Length: 1.5m



#### AC-Adaptor: AD-0604

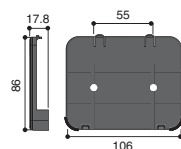
Cable Length: 1.85m



### RTR-5W

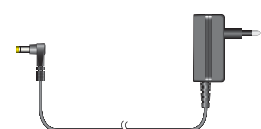
#### Wall Attachment: TR-5WK1

Double-sided Adhesive Tape x 1  
Materials: Polycarbonate



#### AC-Adaptor: AD-0607

Cable Length: 1.85 m



#### NOTE:

(\*1) 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.

(\*2) Operating temperature depends on the specifications for the data logger being used.

# Option Sensors

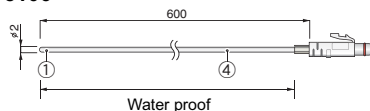
unit: millimeters

## RTR-52A

Possible Temperature Measurement Range: -60 to 155°C Sensor Temperature Resistance: -70 to 180°C  
Temp Measurement Accuracy: Average  $\pm 0.3^\circ\text{C}$  (-20 to 80°C) Average  $\pm 0.5^\circ\text{C}$  (-40 to -20 / 80 to 110°C) Average  $\pm 1.0^\circ\text{C}$  (-60 to -40°C / 110 to 155°C)  
Materials: ①Thermistor ②Stainless pipe (SUS316) ③Teflon Compaction Tube ④Teflon Resin (FEP)-Shielded ⑤Vinyl Coated Electrical Wire ⑥Teflon Resin (FEP)-Mold

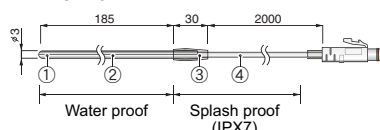
### Teflon-Shielded Sensor: TR-5106

Cable Length: 0.6m  
Thermal Time Constant:  
Approx. 15 Sec. (in air)  
Approx. 2 Sec. (in agitated water)



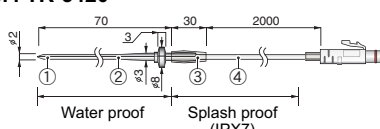
### Stainless Protection Sensor: TR-5220

Cable Length: 2.0m  
Thermal Time Constant:  
Approx. 36 Sec. (in air)  
Approx. 7 Sec. (in agitated water)



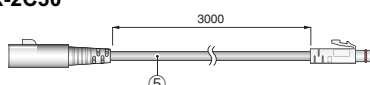
### Stainless Protection Sensor: TR-5420

Cable Length: 2.0m  
Thermal Time Constant:  
Approx. 12 Sec. (in air)  
Approx. 2 Sec. (in agitated water)



### Sensor Extension Cable: TR-2C30

Cable Length: 3.0m  
Splash Resistant (IP64)



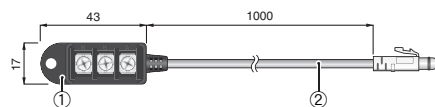
**NOTE:**  
Only one cable per sensor. When using the extension cable there will be a  $+3.0^\circ\text{C}$  at normal temperature and at  $-50^\circ\text{C}$  a gap of  $+0.5^\circ\text{C}$  may occur.

## RTR-52Pt

Materials: ①Vinyl ②Vinyl Coated Wire

### Sensor Adaptor Cable: RTR-05P1

Cable Length: 1.0m Sensor Temperature Resistance:  $-25$  to  $60^\circ\text{C}$   
Optional Sensors for the RTR-52Pt can be selected from the Optional Sensors for TR-81.  
Moreover, designed for easy compatibility, the RTR-52Pt can be used with any three-wire type Pt100 / Pt1000 temperature sensor.

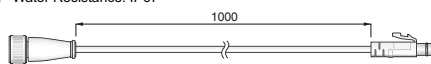


## Other Distributors' Products

These products are only available through Italcoppie sensor S.r.l. and not available from T&D.

### Sensor Adaptor cable for RTD sensor with M12 connection (IEC 61076-2-101)

Cable Length: 1.0m Water Resistance: IP67



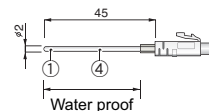
### RTD sensor with M12 connector (IEC 61076-2-101)



Sensing element: RTD Pt100 Ohm at  $^\circ\text{C}$  to IEC751  
Class A or class B type of construction: with densely packed magnesium oxide insulated cable.  
Sheat material: AISI 316 s.s.  
Temperature range:  $-50$  to  $350^\circ\text{C}$  for class A;  $-50$  to  $500^\circ\text{C}$  for class A  
Response time: less than 6 seconds (test in water to IEC 751, 63% of terminal gap)

Please see this website for details. <http://www.italcoppie.it/>

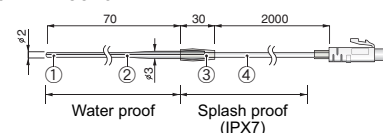
Cable Length: 45mm  
Thermal Time Constant:  
Approx. 15 Sec. (in air)  
Approx. 2 Sec. (in agitated water)



### Teflon-Shielded Sensor: TR-5101

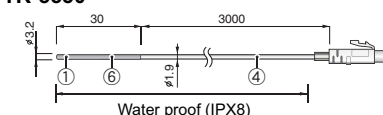
### Stainless Protection Sensor: TR-5320

Cable Length: 2.0m  
Thermal Time Constant:  
Approx. 12 Sec. (in air)  
Approx. 2 Sec. (in agitated water)



### Water Immersible Sensor: TR-5530

Cable Length: 3.0m  
Thermal Time Constant:  
Approx. 120 Sec. (in air)  
Approx. 6 Sec. (in agitated water)

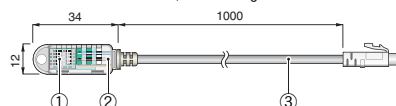


## RTR-53A

Materials: ①Temperature/Humidity Sensor ②Polypropylene Resin ③Vinyl Coated Electrical Wire

### Temp / Humidity Sensor: TR-3310

Cable Length: 1.0m Possible Temperature Measurement Range: 0 to  $55^\circ\text{C}$   
Possible Humidity Measurement Range: 10 to 95%RH Sensor Temperature Resistance:  $-10$  to  $60^\circ\text{C}$   
Temp Measurement Accuracy: Average  $\pm 0.3^\circ\text{C}$  Humidity Measurement Accuracy:  $\pm 5\%\text{RH}$  (At  $25^\circ\text{C}$  50%RH)  
Service Life: 1 year (under normal operational conditions)  
Operational Conditions: Without dew condensation, water leakage or effect from corrosive gas or organic solvents.

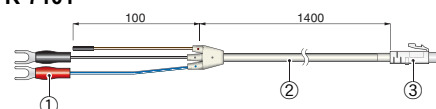


## RVR-52A

Materials: ①M3.5 Crimp Terminal ②Vinyl Coated Electrical Wire ③Connector

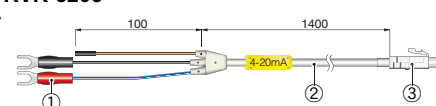
### Pulse Input Cable: RPR-7101

Cable Length: 60in (1.5m)



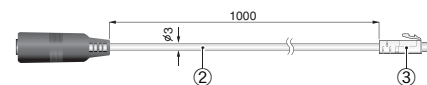
### 4-20mA Probe Cable: RVR-5203

Maximum Current Input: MAX40mA  
Interior Resistance: 100ohm  
Output: 2V at 20mA / 0.4V at 4mA  
Conversion Accuracy: 0.5%  
Cable Length: 60in (1.5m)



### Sensor Extension Cable (to Moisture Sensors): VR-2C10

Cable Length: 40in (1.0m)



# Option Software

## T&D Recorder VLD for Windows®: VLD-5EU

In order to comply with FDA 21 CFR Part 11, T&D Recorder VLD for Windows is complete with the following functions.

- Software Operation Password Protection
- Prevention of Data Manipulation via Password
- Recording of Software Operations History

Compatible Devices:

- Data Logger: RTR-51, RTR-52, RTR-53, RTR-51A, RTR-52A, RTR-53A, TR-51A, TR-52
- Data Collector: RTR-57U, RTR-57C
- Communication Port: TR-50C

For details, contact your local representative or dealer.

Web Site  
T&D Online

Product information, FAQ and software update downloads. <http://www.tandd.com/>

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