

Wireless Data Logger RTR-5 Series Options



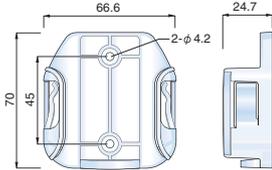
Options

unit: millimeters

Data Logger

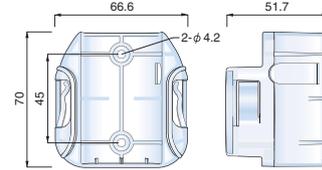
Wall Attachment: TR-05K3

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



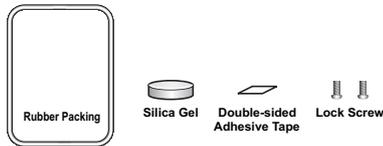
Wall Attachment: TR-05K3L

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



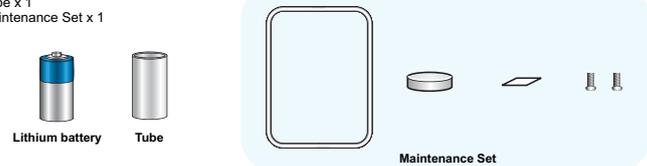
Maintenance Set: TR-00P1

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

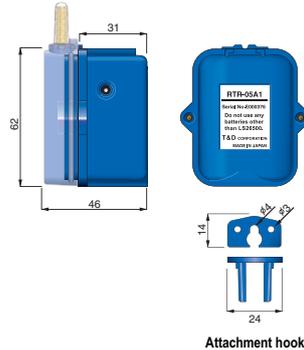


External Power Adaptor: RTR-05A1

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.



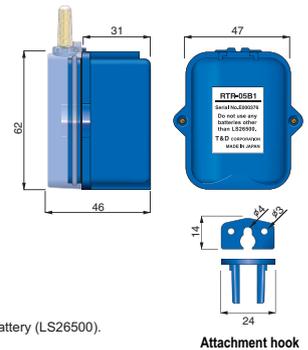
Large Capacity Battery Pack: RTR-05B1

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.

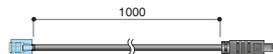
When using RTR-05B1, it is necessary to purchase Lithium Battery (LS26500).
For details, contact your local representative or dealer.



RTR-57U

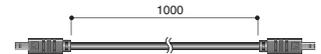
Serial Communication Cable: TR-4C10

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



Serial Communication Cable: TR-6C10

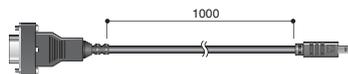
Cable Length: 1.0m
Compatible Models: TR-71U/72U



RTR-57U / RTR-50

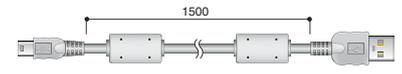
Serial Communication Cable: TR-07C

Cable Length: 1.0m



USB Communication Cable: US-15C

Cable Length: 1.5m



AC-Adaptor: AD-0604

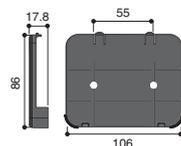
Cable Length: 1.85m



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

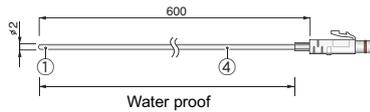
unit: millimeters

RTR-52A

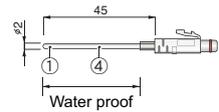
Possible Temperature Measurement Range: -60 to 155°C Sensor Temperature Resistance: -70 to 180°C
 Temp Measurement Accuracy: Average $\pm 0.3^\circ\text{C}$ (-20 to 80°C) Average $\pm 0.5^\circ\text{C}$ (-40 to -20 / 80 to 110°C) Average $\pm 1.0^\circ\text{C}$ (-60 to -40°C / 110 to 155°C)
 Materials: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



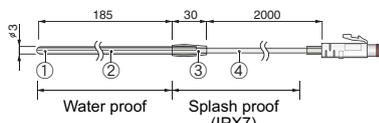
Cable Length: 45mm
 Thermal Time Constant:
 Approx. 15 Sec. (in air)
 Approx. 2 Sec. (in agitated water)



Teflon-Shielded Sensor: TR-5101

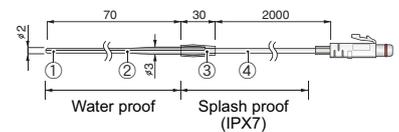
Stainless Protection Sensor: TR-5220

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



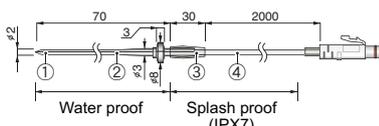
Stainless Protection Sensor: TR-5320

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



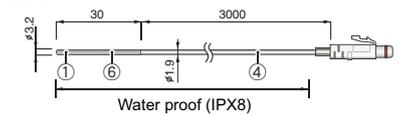
Stainless Protection Sensor: TR-5420

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



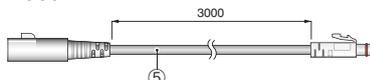
Water Immersible Sensor: TR-5530

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



Sensor Extension Cable: TR-2C30

Cable Length: 3.0m
 Splash Resistant (IP64)



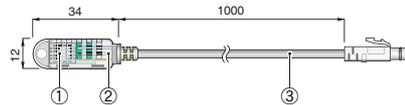
NOTE:
 Only one cable per sensor. When using the extension cable there will be a +3.0°C at normal temperature and at -50°C a gap of +0.5°C may occur.

RTR-53A

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

Temp / Humidity Sensor: TR-3310

Cable Length: 1.0m Possible Temperature Measurement Range: 0 to 55°C
 Possible Humidity Measurement Range: 10 to 95%RH Sensor Temperature Resistance: -10 to 60°C
 Temp Measurement Accuracy: Average $\pm 0.3^\circ\text{C}$ Humidity Measurement Accuracy: $\pm 5\%\text{RH}$ (At 25°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.

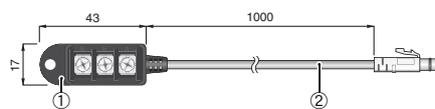


RTR-52Pt

Materials: ① Vinyl ② Vinyl Coated Wire

Sensor Adaptor Cable: RTR-05P1

Cable Length: 1.0m Sensor Temperature Resistance: -25 to 60°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.

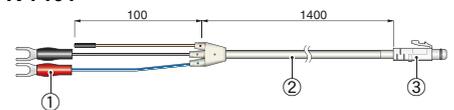


RVR-52A

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

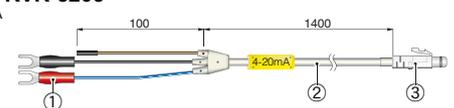
Pulse Input Cable: RPR-7101

Cable Length: 60in (1.5m)



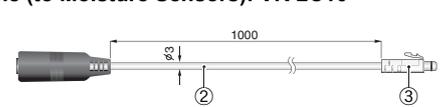
4-20mA Probe Cable: RVR-5203

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)

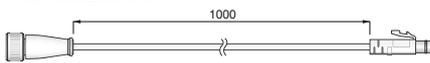


Other Distributors' Products

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 °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°C for class A; -50 to 500°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/>

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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