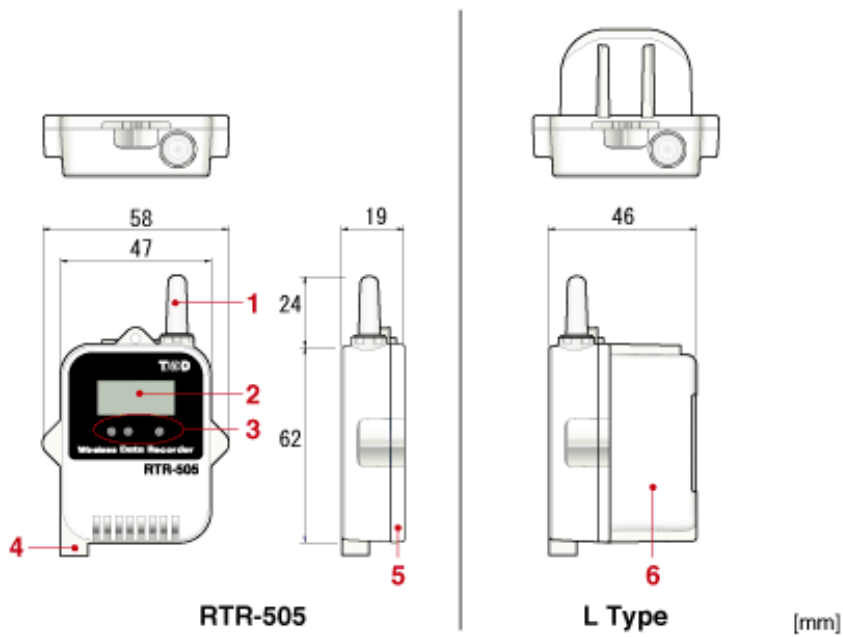


FCC model / CE model	RTR-505-TC/ 505-TCL	RTR-505-Pt/ 505-PtL	RTR-505-V/ 505-VL	RTR-505-mA/ 505-mAL	RTR-505-P/ 505-PL
Measurement Channels	Temperature 1ch	Temperature 1ch	Voltage 1ch	4-20mA 1ch	Pulse Count 1ch
Sensor	Thermocouple: Type K, J, T, S	Pt100, Pt1000 (3-wire)	-	-	-
Measurement Units	°C, °F	°C, °F	V, mV	mA	P
Measurement Range	-199 to 1700°C	-199 to 600°C	0 to 22V	0 to 20mA (Operational up to 40mA)	
Accuracy	Thermocouple Measurement $\pm(0.3^{\circ}\text{C} + 0.3\% \text{ of reading})$ [Type K, J, T] $\pm(1^{\circ}\text{C} + 0.3\% \text{ of reading})$ [Type S] Cold Junction Compensation $\pm 0.3^{\circ}\text{C}$ [10 to 40°C] $\pm 0.5^{\circ}\text{C}$ [-40 to 10°C / 40 to 80°C]	$\pm(0.3^{\circ}\text{C} + 0.3\% \text{ of reading})$ [10 to 40°C] $\pm(0.5^{\circ}\text{C} + 0.3\% \text{ of reading})$ [-40 to 10°C / 40 to 80°C]	$\pm(0.5 \text{ mV} + 0.3\% \text{ of reading})$ [10 to 40°C] $\pm(1 \text{ mV} + 0.5\% \text{ of reading})$ [-40 to 10°C / 40 to 80°C]	$\pm(0.05 \text{ mA} + 0.3\% \text{ of reading})$ [10 to 40°C] $\pm(0.1 \text{ mA} + 0.3\% \text{ of reading})$ [-40 to 10°C / 40 to 80°C]	Input Signal: • Non-voltage Contact Input • Voltage Input (0 to 27 V) Detection Voltage Lo: 0.5 V or less Hi: 2.5V or more Input Impedance: Approx. 100 KΩ pull up Chattering Filter: ON: 15 Hz or less OFF: 3.5 kHz or less Maximum Count 61,439 / Recording Interval
	Note: The above mentioned temperature is the operating environment for Input Module only.				
Measurement Resolution	Type K, J, T : 0.1 °C Type S : Approx. 0.2 °C	0.1 °C	up to 400mV: at 0.1mV, up to 800mV: at 0.2mV, up to 999mV: at 0.4mV, up to 3.2V: at 1mV, up to 6.5V: at 2mV, up to 9.999V: at 4mV, up to 22V: at 10mV	0.01 mA	
Module Specifications	TCM-3010	PTM-3010	VIM-3010	AIM-3010	PIC-3150
Logging Capacity	16,000 readings				
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 (alternating display for multiple channel devices), Battery Life Warning, etc.				
Communication Interfaces	Wireless Communication (Short Range Radio Communication): • FCC Part15 Section247 / IC RSS-210 (Frequency Range: 902 to 928MHz, RF Power: 7mW) • ETSI EN 300 220 (Frequency Range: 869.7 to 870MHz, RF Power: 5mW) Optical Communication (proprietary protocol)				
Wireless Transmission Range	Approx. 150 meters (500 ft) if direct and unobstructed				

Power	Lithium Battery: LS14250(*2) or CR2(*3) x 1 L Type: Large Capacity Battery Adaptor Kit (RTR-500B1)(*4) External Power Adaptor Kit (RTR-500A1: sold separately)				
Battery Life(*5)	About 10 months L Type: About 4 years				
Dimensions	H 62 mm x W 47 mm x D 19 mm L type: H 62 mm x W 47 mm x D 46.5 mm (excluding protrusions and sensor) Antenna length: 24 mm				
Weight	Approx. 56g L Type: approx. 109g (including battery / excluding sensor)				
Operating Environment	-30 to 80°C (The environmental operating range of the logger unit is -40 to 80°C, but wireless communications cannot be utilized in an environment less than -30°C.)				
Waterproof Capacity(*6)	IP64: Splash proof (rated for use in daily life) Note: Sensor is not water resistant.				
Accessories	Input Module (TCM-3010)	Input Module (PTM-3010)	Input Module (VIM-3010)	Input Module (AIM-3010)	Input Module (PIC-3150)
	Lithium Battery (LS14250) or Large Capacity Battery Adaptor Kit (RTR-500B1), Strap, User's Manual (Warranty Included)				
Compatible Base Units	RTR-500, RTR-500NW/500AW, RTR-500DC, RTR-500GSM		RTR-500, RTR-500NW/500AW, RTR-500DC		
<p>(*1) Only "Endless" is available when using RTR-500W for Windows or RTR-500GSM for Windows.</p> <p>(*2) The included lithium battery (LS14250) is not sold in stores. Please purchase the optional battery set for low-temperature use (TR-11P2) for replacement.</p> <p>(*3) Only use the CR2 within temperature range of -20 to 60°C, avoiding exposing the CR2 to excessive vibration such as transportation.</p> <p>(*4) When using RTR-500B1 it is necessary to purchase Lithium Battery (LS26500). For details, contact your local authorized distributor.</p> <p>(*5) Battery life varies depending upon the ambient temperature in which it is used, the recording interval, the frequency of communication, and the battery performance. All estimates are based on operations carried out with a new battery and are in no way.</p> <p>(*6) This is the waterproof capacity of the data logger with the sensor connected.</p>					



RTR-505-TC : Thermocouple Module (TCM-3010)



RTR-505-Pt : Pt Module (PTM-3010)



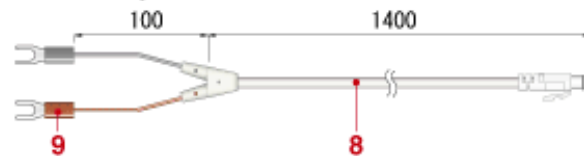
RTR-505-V : Voltage Module (VIM-3010)



RTR-505-mA : 4-20mA Module (AIM-3010)



RTR-505-P : Pulse Input Cable (PIC-3150)



[mm]

[mm]

- 1: Antenna
- 2: LCD Display
- 3: Optical communication Area
- 4: Sensor Jack
- 5: Back Case
- 6: Large Capacity Battery Case

