TR-5i Series - Specifications

Specificatio					
Unit Type	TR-55i-TC	TR-55i-Pt	TR-55i-V	TR-55i-mA	TR-55i-P
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	Р
Measurement Range	-199 to 1700 °C	–199 to 600 °C	0 to 22 V	0 to 20 mA (Operational up to 40 mA)	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
Accuracy (*1)	Thermocouple Measurement $\pm (0.3 \ ^{\circ}C + 0.3 \ ^{\circ}dg) [Type K, J, T]$ $\pm (1 \ ^{\circ}C + 0.3 \ ^{\circ}dg) [Type S]]$ Cold Junction Compensation $\pm 0.3 \ ^{\circ}C [10 \text{ to } 40 \ ^{\circ}C]$ $\pm 0.5 \ ^{\circ}C [-40 \text{ to } 10 \ ^{\circ}C / 40 \text{ to} 80 \ ^{\circ}C]$	±(0.3 °C + 0.3 % rdg) [10 to 40 °C] ±(0.5 °C + 0.3 % rdg) [-40 to 10 °C / 40 to 80 °C]	±(0.5 mV + 0.3 % rdg) [10 to 40 °C] ±(1 mV + 0.5 % rdg) [-40 to 10 °C / 40 to 80 °C]	±(0.05 mA + 0.3 % rdg) [10 to 40 °C] ±(0.1mA + 0.3 % rdg) [-40 to 10 °C / 40 to 80 °C]	
	Note: The above temperatures [°C] are for the operating environment of the Input Module.				Chattering Filter:
Measurement Resolution	Type K, J, T: 0.1 °C Type S: approx. 0.2 °C	0.1 °C	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 2.2 V : 10 mV	0.01 mA	ON: 15 Hz or less OFF: 3.5 kHz or less Maximum Count 61,439 / Recording Interval
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)				
_CD Display Items	Measurements, Recording Status, Battery Life Warning, etc.				
Communication Interfaces	Optical Communication (proprietary protocol) Infrared(IR) Communication (IrPHY 1.2 low power)				
Power (*2)	Lithium Battery: LS14250 x 1				
Battery Life (*3)	Approx. 14 months (10 months with IR Communica- tion Enabled)	Approx. 24 months (14 months with IR Communica- tion Enabled)	Approx. 16 months (11 months with IR Communica- tion Enabled)	Approx. 16 months (11 months with IR Communica- tion Enabled)	Approx. 16 to 24 months (11 to 18 months with IR Con munication Enabled)
Battery Life (*3) Dimensions	(10 months with IR Communica-	(14 months with IR Communica- tion Enabled)	(11 months with IR Communica-	(11 months with IR Communica- tion Enabled)	(11 to 18 months with IR Cor
,	(10 months with IR Communica-	(14 months with IR Communica- tion Enabled)	(11 months with IR Communica- tion Enabled) H 62 mm x W 47 mm x D 19 mm	(11 months with IR Communica- tion Enabled)	(11 to 18 months with IR Cor
Dimensions	(10 months with IR Communica-	(14 months with IR Communica- tion Enabled)	(11 months with IR Communica- tion Enabled) H 62 mm x W 47 mm x D 19 mm cluding protrusions and Input Modu	(11 months with IR Communica- tion Enabled)	(11 to 18 months with IR Cor
Dimensions Weight Operating	(10 months with IR Communica-	(14 months with IR Communica- tion Enabled) (ex Approx. 55	(11 months with IR Communica- tion Enabled) H 62 mm x W 47 mm x D 19 mm cluding protrusions and Input Modu g (including battery / excluding Inpu	(11 months with IR Communica- tion Enabled) le) ut Module) y life)	(11 to 18 months with IR Cor
Dimensions Weight Operating Environment Waterproof	(10 months with IR Communica-	(14 months with IR Communica- tion Enabled) (ex Approx. 55	(11 months with IR Communica- tion Enabled) H 62 mm x W 47 mm x D 19 mm cluding protrusions and Input Modu g (including battery / excluding Inpu -40 to 80°C 4: Splash proof (rated for use in dail	(11 months with IR Communica- tion Enabled) le) ut Module) y life)	(11 to 18 months with IR Cor
Dimensions Weight Operating Environment Waterproof Capacity (*4)	(10 months with IR Communica- tion Enabled)	(14 months with IR Communica- tion Enabled) (ex Approx. 55 IP64 No Input Module (PTM-3010)	(11 months with IR Communica- tion Enabled) H 62 mm x W 47 mm x D 19 mm cluding protrusions and Input Modu g (including battery / excluding Inpu -40 to 80°C 4: Splash proof (rated for use in dail te: Input Module is not water resistation Input Module	(11 months with IR Communica- tion Enabled) le) ut Module) y life) ant. Input Module (AIM-3010)	(11 to 18 months with IR Con munication Enabled)

*1: "rdg" stands for reading.
*2: The included lithium battery (LS14250) is not sold in stores. Please purchase the optional battery set (TR-11P2) for replacement.
*3: 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 a guarantee of actual battery life. Battery life may be shortened further if the unit is used under inverter type fluorescent lighting.
*4: This is the waterproof capacity of the data logger with the Input Module connected.
The specifications listed above are subject to change without notice.