

- Use a dry cloth to clean the unit, and do not use water or organic solvent.
 Failure to follow this instruction may result in fire or electric shock.
- 3. Keep the product away from metal chip, dust, and wire residue which flow into the unit.

Failure to follow this instruction may result in fire or product damage.

	Spe	cificatio	า		
Mo	Model		CN-502H		
Power supply			11-35VDC-		
Power consumption			Max. 1W		
Display method ^{*1}		thod ^{*1}	None		
ed	RTD		DPt100Ω, DPt500Ω, DPt1000Ω Ni100Ω, Ni500Ω, Ni1000Ω JPt100Ω		
t t	Therm	ocouple	K, J, T, E, N, S, B, R		
Input type	Resista	ance trans. (Ω)	0-400Ω, 0-2000Ω		
-	Voltage trans. (mV)		-10-75mV, -100-100mV, -100-500mV, -100-2000mV		
	Input accuracy		±0.1% F.S.		
Measurable current		current	50µA (3-wire), 100µA (4-wire)		
Resistance			Max. 5Ω		
Output			DC4-20mA (2-wire)		
Output accuracy			±0.1% F.S.		
Response time			1 sec (10 to 90% of output)		
Load			Max. (power supply - 11VDC)/0.023A		
Setting method			HART-protocol (no setting key)		
Alarm			Below 3.8 mA, over 21.0 mA / sensor break 22mA or 3.6mA		
Sar	mpling p	eriod	500ms		
Die	lectric s	trength	1000VAC 50/60Hz 1 minute (between all terminals and case)		
Noi	ise immi	unity	IEC 61326-1		
Vib	ration		0.75mm amplitude at frequency of 5 to 55Hz (for 1 min) in each X, Y, Z direction for 2 hours		
Insi	ulation r	esistance	Over 100MΩ (500VDC megger)		
Me	Memory protection		Approx. 10 years (when using non-volatile semiconductor memory		
Env	viron-	Ambient temp.	-40 to 85°C, storage: -40 to 85°C		
me	nt	Ambient humi.	5 to 95%RH, storage: 5 to 95%RH		
Pro	otect stru	cture	Housing: IP40 (IEC standard), terminal: IP00 (IEC standard)		
Tig	htening	torque	Housing: 1N·m, terminal: 0.9N·m		
Gal	lvanic in	sulation	1kVAC (input/output)		
App	proval		CE		
Ma	terial		Case: polycabonate		

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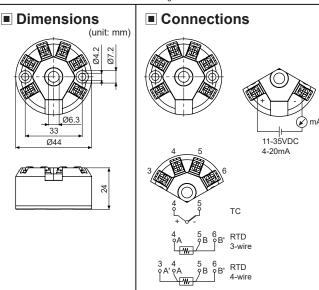
 Material
 Case: polycabonate

 Weight^{¥2}
 Approx. 66g (approx. 26g)

 X1: Parameter setting and state monitoring are possible through an external device such as

HART communicator or loader. %2: The weight includes packaging. The weight is parenthesis is for unit only.

%2. The weight includes packaging. The weight is parentnesis is for unit only. %Environment resistance is rated at no freezing or condensation.



Input Type and Range

	V 1	•		
Input type		Input range (°C)	Input range (°F)	Min. span (℃)
	DPt100Ω	-200 to 850	-328 to 1562	
	DPt500Ω	-200 to 250	-328 to 482]
	DPt1000Ω	-200 to 250	-328 to 482	10
RTD	Ni100Ω	-60 to 180	-76 to 356	
	Ni500Ω	-60 to 180	-76 to 356	
	Ni1000Ω	-60 to 150	-76 to 302	
	JPt100Ω	-200 to 600	-328 to 1112	
	K (NiCr-Ni)	-270 to 1372	-454 to 2501	50
	J (Fe-CuNi)	-210 to 1200	-346 to 2192	
	T (Cu-CuNi)	-270 to 400	-454 to 752	
Thermocouple	E (NiCr-CuNi)	-270 to 1000	-454 to 1832	
mermocoupie	N (NiCrSi-NiSi)	-270 to 1300	-454 to 2372	
	S (PtRh10-Pt)	-50 to 1768	-58 to 3214.4	
	B (PtRh30-PtRh6)	0 to 1820	32 to 3308	500
	R (PtRh13-Pt)	-50 to 1768	-58 to 3214.4	
Resistance tran	emitten	0-400Ω		10Ω
Resistance tran	smiller	0-2000Ω		1002
		-10-75mV		5mV
Valtara transmi	tter	-100-100mV		
Voltage transmi	liter	-100-500mV		10mV
		-100-2000mV		20mV
	cluded from the ±0.19	% F.S. of input acc	uracy	

Thermocouple: K (below -190°C), T (below -200°C), S, B, R (below 400°C)

Environmental Influence

Cold Junction Compens	ation (CJC) error	±1°C				
	Output error	0.1% F.S. / 10℃ (18°F)				
Temperature influence	Input error (Thermocouple)	0.015% F.S. / 1℃ (1.8°F)				
	Input error (RTD)	0.015% F.S. / 1°C (1.8°F)				
Power supply voltage flu	ictuations	0.002% F.S. / V				
Load fluctuations		0.002% F.S. /100Ω				
% This is based on the state of 24VDC power supply, 250 Ω load, 25 $^\circ$ C ambient temperature,						
and 10 min warming up time.						

Cautions during Use

1. Follow instructhions in 'Cautions during Use'.

- Otherwise, it may cause unexpected accidents.
- Power supply should be insulated and limited voltage/current or Class 2, SELV power supply device.
- Keep away from high voltage lines or power lines to prevent inductive noise.
 Do not use near the equipment which generates strong magnetic force or high frequency noise.
- Install a power switch or circuit breaker in the easily accessible place for supplying or disconnecting the power.
- 5. In case of connecting RTD temperature sensor, must use 3-wire or 4-wire system in which all wires have same length and thickness.
- In case of extending wire of thermocouple (TC) temperature sensor, must use designated compensation wires.

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- 6. This unit may be used in the following environments.
 - ①Indoors (in the environment condition rated in 'Specifications') ②Altitude max. 2.000m
- ②Altitude max. 2,000m
 ③Pollution degree 2
- Installation Category II

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The above specifications are subject to change and some models may be discontinued without notice.

**Be sure to follow cautions written in the instruction manual and the technical descriptions (catalog, homepage).