
TEMPERATURE MEASUREMENT UNIT

TC – 8 (TC2)

SPECIFICATIONS

Specifications are subject to change without prior notice.

Rev.	Date	Revision history			ChangeNo.	Rep.
Create	October 6, 2017	PANTOS CO., LTD.				
Revision						
Text	3 pages	Writing	Check	Approve	Document number	Rev.
Figure	0 sheets	Kumeki	Takahata	Takahata	ACMA08-TC2-0001	
Cover	1 sheet					

Product name TC-8	Title TEMPERATURE MEASUREMENT UNIT TC-8(TC2) SPECIFICATIONS
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1. Outline

This is 8-channels input unit for measuring temperature. It is insulated between channels and between main unit cases. A temperature display and an analog signal are outputted.

2. Specifications

Basic specifications

Model	TC-8(TC2)
Name	TEMPERATURE MEASUREMENT UNIT
A/D resolution	16-bit
Function	Thermocouple measuring temperature
External dimensions	320(W) × 100(H) × 320(D) mm (Projection things are not included)
Mass	Approx. 4kg

Input part

Number of channels	8channels
Input form	Imbalance floating
	Between input/output and between channels are insulated each

Measurement range

Thermocouple JIS	J: -200°C ~ 1200°C
	K: -250°C ~ 1300°C
	T: -250°C ~ 400°C

Measurement accuracy

Thermocouple input	±0.1%(rdg) ±2°C J,K,T	
	Reference junction compensation	±1°C J,K,T

Under the following conditions

- 5°C to 35°C/35 to 85% RH
- 30min or more after power is supplied
- 6 months after shipment or calibration
- Noise is not included

Acceptable input voltage	30V(DC+AC) peak
Frequency characteristics	DC~Approx.5Hz(+0.5dB, -3dB)
Input impedance	Approx. 1MΩ
Maximum floating voltage	Between input terminal and case 500V(DC+AC) peak
	Between input channels 500V(DC+AC) peak
Noise	+0.3%/range Input short circuit
Common mode rejection ratio (CMRR)	-100dB or more
Drift	50/60Hz signal source resistance 100Ω or below
	Gain ±0.02% range/°C
	Zero ±0.02% range/°C
Input terminal	2 terminals +/- (for banana plug) made by copper
Insulation resistance	Between all the input terminals
	50MΩ or more, 500V DC megger
	Between all the input terminals and chassis(GND)
	50MΩ or more, 500V DC megger
Withstand voltage	Between all the input terminals 1.5kV AC 1min
	Between all the input terminals and chassis(GND) 1.5kV AC 1min

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Display
Beam Temperature display 4 beam
Minimum beam 0.1°C -99.9°C~999.9°C
Minimum beam 1°C -250°C~-100°C / 1000°C~1300°C
LED indication Thermocouple J, K, T can be selected by type changeover switch
For unused channels, you can turn OFF the display by selecting OFF

Analog output
Conversion factor 1mV/°C , 10mV/°C (Switch by switch)
 -1mV/°C , -10mV/°C (Switch by switch)
 (Example : -50~200°C -50~200mV)
 (However, 1°C : At 10mV at 1000°Cmax)
Output impedance 1Ω or below

Power supply
AC100V±10% 50~60Hz
DC 12V(9V~16V)
Power consumption AC : 25VA
 DC : 20VA

Accessories

AC power supply cable (3P)	1.5m	1
DC power supply cable (2P)	3m	1
Fuse AC 0.5A		2
DC 2A		1
3 poles - 2 poles conversion adapter		1
Input terminal cover		1
Cover installation screw		4
Instruction manual		1

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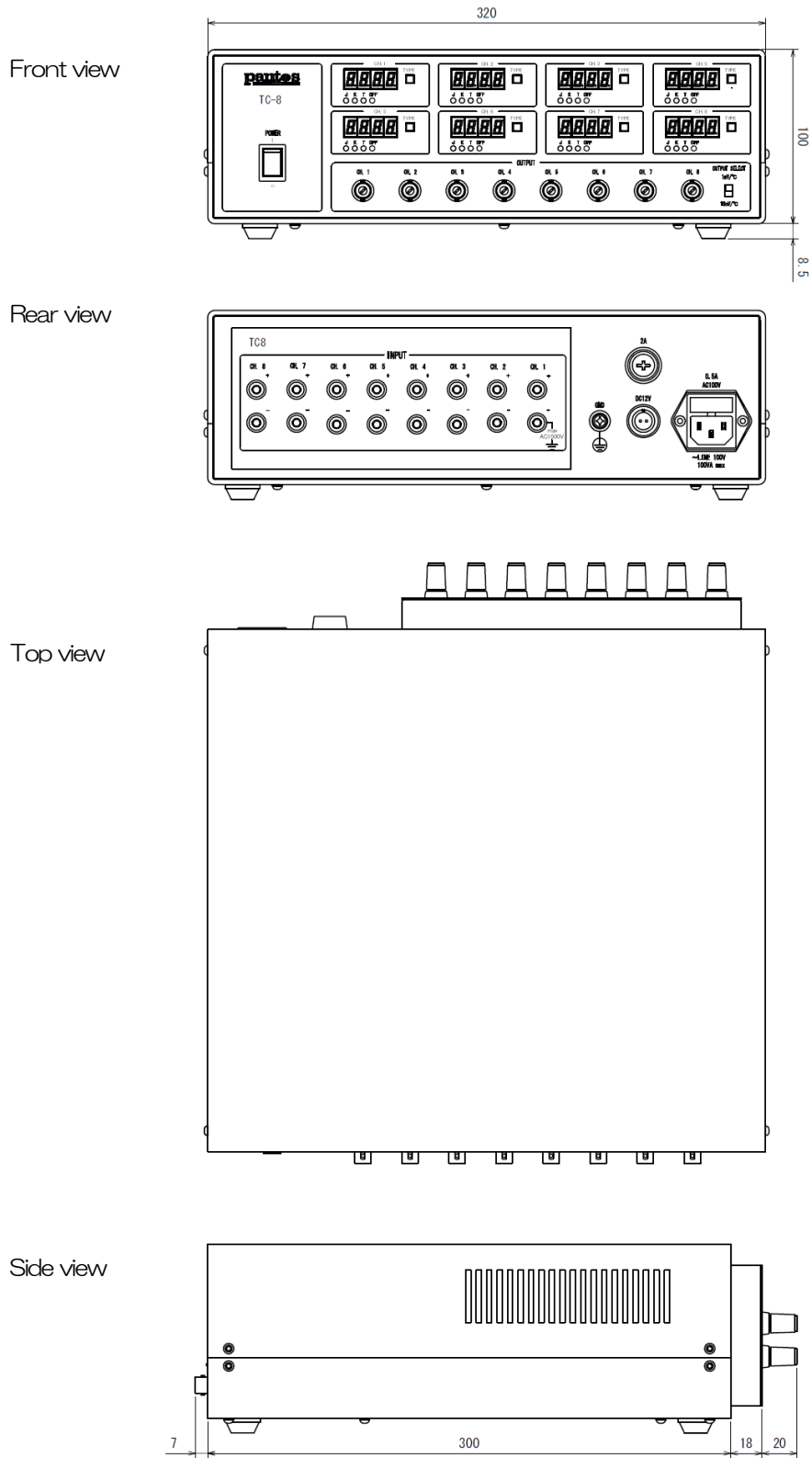
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3. External drawing



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