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TC - 16 (TC4)

SPECIFICATIONS

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TEMPERATURE MEASURMENT UNIT TC-16(TC4) SPECIFICATIONS

1. Outline

This is 16-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.

Title

2. Specifications

Basic specifications	
Model	TC-16(TC4)
Name	TEMPERATURE MEASURMENT UNIT
A/D resolution	16-bit
Function	Thermocouple measuring temperature
External dimensions	$340(W) \times 180(H) \times 320(D)$ mm (Projection things are not included.)
Mass	Approx. 8kg
Input part	
Number of channels	16channels
Input form	Imbalance floating
	Between input/output and between channels are insulated each
Measurement range	
Thermocouple JIS	J∶-200°C ~ 1200°C
	$K:-250^{\circ}C \sim 1300^{\circ}C$
	$T:-250^{\circ}C \sim 400^{\circ}C$
Measurement accuracy	
Thermocouple input	$\pm 0.1\%$ (rdg) $\pm 2\%$ J,K,T
	Reference junction compensation $\pm 1^{\circ}$ C J,K,T
Under the following condition	ns
23°C±5°C /35 to 3	85% RH
	er power is supplied
6 months after shi	pment or calibration
Noise is not include	ed
Acceptable input voltage	30V(DC+AC) peak
Frequency character is tics	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	-100dB or more
(CMRR)	50/60Hz signal source resistance 100 Ω or below
Drift	Gain $\pm 0.02\%$ range/°C
	Zero ±0.02% range/°C
Input terminal	2 terminals +/- (for banana plug) mode by copper

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Product name

TC-16	TEMPERATURE MEASURMENT UNIT TC-16(TC4) SPECIFICATIONS
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 Connector	1Ω or below BNC type
General information	
Power supply	AC100V±10% 50~60Hz DC 12V(9V~16V)
Power consumption	AC:50VA DC:40VA
Usage environment	5° C $\sim 40^{\circ}$ C
Storage environment	0° C \sim 45 $^{\circ}$ C
Insulation resistance	Between all the input terminals $50M\Omega$ or more, $500V$ DC megger
	Between all the input terminals and chassis(GND) 50M Ω or more, 500V DC megger
Withstand voltage	Between all the input terminals 1.5kV AC 1 min Between all the input terminals and chassis(GND) 1.5kV AC 1 min
Vibration	0.1G or below (5~55Hz)
Impact	Unacceptable
Accessories	AC power supply cable (3P)1.5m1DC power supply cable (2P)3m1FuseAC2A2DC5A1
	3 poles – 2 poles conversion adapter 1
	Input terminal cover 1
	Cover installation screw 4
	Instruction manual 1

Title

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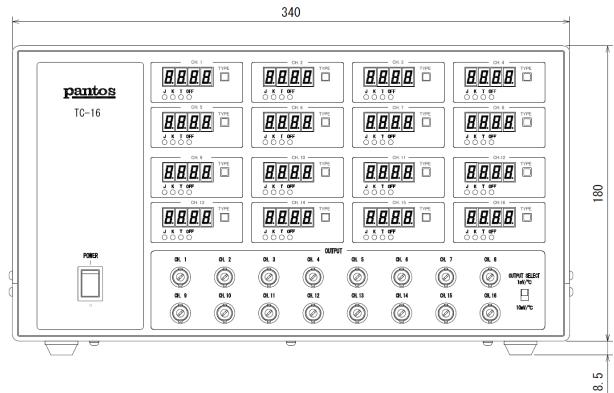
Product name

TC-16

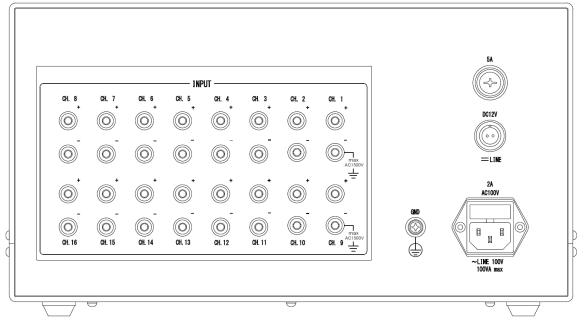
TEMPERATURE MEASURMENT UNIT TC-16(TC4) SPECIFICATIONS

3. External drawing

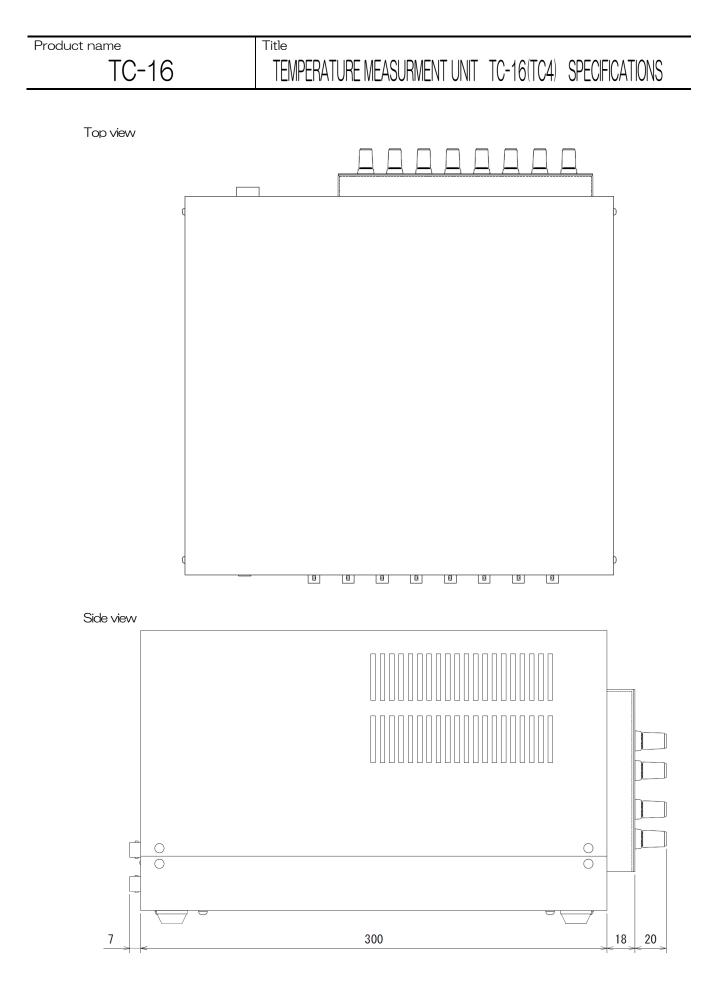
Front view



Rear view



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