

General Specifications

MODEL MR6 RTD Transmitter

JUXTA

Model MR6 plug-in type RTD Transmitter receives JIS Specs RTD (Pt100, JPt100, Pt50) and converts temperature signal into isolated DC current or voltage signal.

● 2000V AC high voltage proof is available upon request.

Input/Output Specifications	
Input signal	JIS specs. RTD (Pt100, JPt100, Pt50) Pt50 is equivalent to old JIS (JIS C 1604-1981)
Measuring range	-200~500°C
Measuring span	More than 10°C
Zero elevation	Within 5 times of measuring span
Measuring current	About 2mA DC
Permissible input conductor resistance	Less than input span (°C)×0.4Ω or 10Ω whichever smaller (whereas resistance value of each cable is equal)
Output signal	DC current or voltage signal
Permissible load resistance	
Output range	Output Range
4~20mA DC : Less than 750Ω	0~10mV DC : More than 250kΩ
2~10mA DC : " 1500Ω	0~100mV DC : " 250kΩ
1~5mA DC : " 3000Ω	0~1V DC : " 2kΩ
0~20mA DC : " 750Ω	0~10V DC : " 10kΩ
0~16mA DC : " 900Ω	0~5V DC : " 2kΩ
0~10mA DC : " 1500Ω	1~5V DC : " 2kΩ
0~1mA DC : " 15kΩ	-10~+10V DC : " 10kΩ
Zero point adjustment range	±5% of span
Span adjustment range	±5% of span
Standard Performance	
Accuracy rating	±0.3% of span
Response Speed	150ms 63% response (10~90%)
Burnout	Specify UP, DOWN, OFF Burnout time is less than 60 seconds
Isulation resistance	100MΩ (at 500V DC) between input~output~power supply~ground
Voltage withstand	1500V AC/1 minute between input~output~power supply~ground
Temperature range	0~50°C
Humidity range	5~90%RH (no condensation)
Power supply voltage	85~264V AC 47~63Hz or 12~48V DC
Effect of power supply voltage fluctuation	Less than ±0.1% of span for 85~264V AC or 12~48V DC
Effect of change in ambient temperature	Less than ±0.2% of span for 10°C change
Current dissipation	24V DC 155mA
Power dissipation	100V AC 8.5VA, 200V AC 13.0VA
Mounting, Shape and Accessories	
Material	Case ABS plastic
Mounting method	Wall or DIN rail mounting (More than 5mm interval is required for access mounting)
Connecting method	M3.5 screw terminal
External dimension	85x50x123mm (HxWxD) (including socket)
Weight	Body : approx. 250g, Socket : approx. 60g
Accessoires	Spacer 1 (Use for DIN rail mounting)

MODEL MR6-□□-□*A/BD

INPUT JIS Specs. RTD
 1 : Pt100
 2 : JPt100
 3 : Pt50
 0 : CUSTON ORDER

OUTPUT A : 4~20mA DC 1 : 0~10mV DC
B : 2~10mA DC 2 : 0~100mV DC
C : 1~5mA DC 3 : 0~1V DC
D : 0~20mA DC 4 : 0~10V DC
E : 0~16mA DC 5 : 0~5V DC
F : 0~10mA DC 6 : 1~5V DC
G : 0~1mA DC 7 : -10~+10V DC
 Z : (CUSTOM ORDER) 0 : (CUSTOM ORDER)
 Current Signal Voltage Signal
 Refer Table 1 Refer Table 1

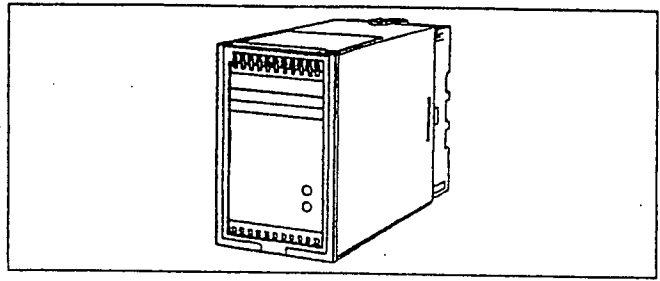
POWER SUPPLY 1 : 12~48V DC
2 : 85~264V AC

BURNOUT U : UP
D : DOWN
N : OFF

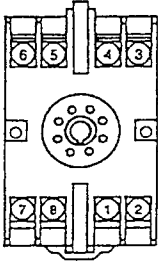
ORDERING INFORMATION
 ● Model Code : (Example) MR6-16-2*A/BD
 ● Input Range : (Example) 0~300°C

Table 1 Manufacturable Range

	Current Signal	Voltage Signal
Output Range	0~24mA DC	-10~+10V DC
Span	1~24mA DC	10mV~20V DC
Zero Elevation	0~200%	-100~+200%

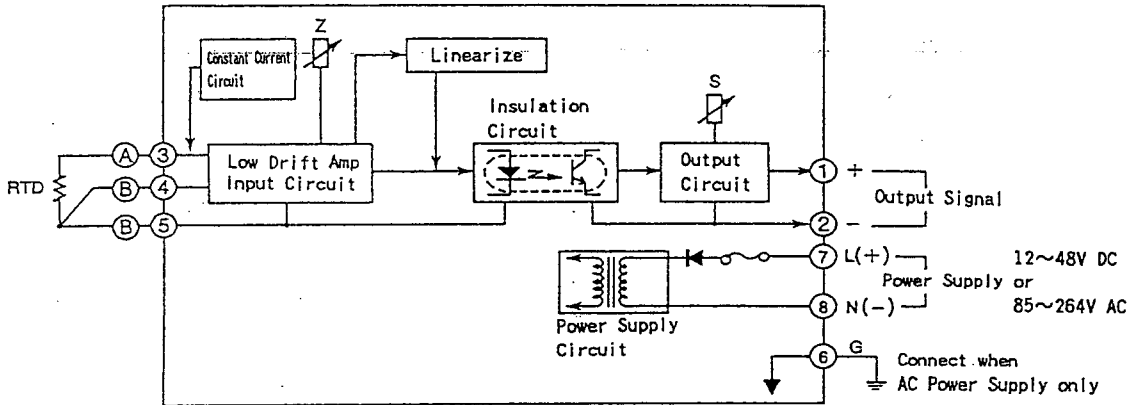


TERMINAL ARRANGEMENT

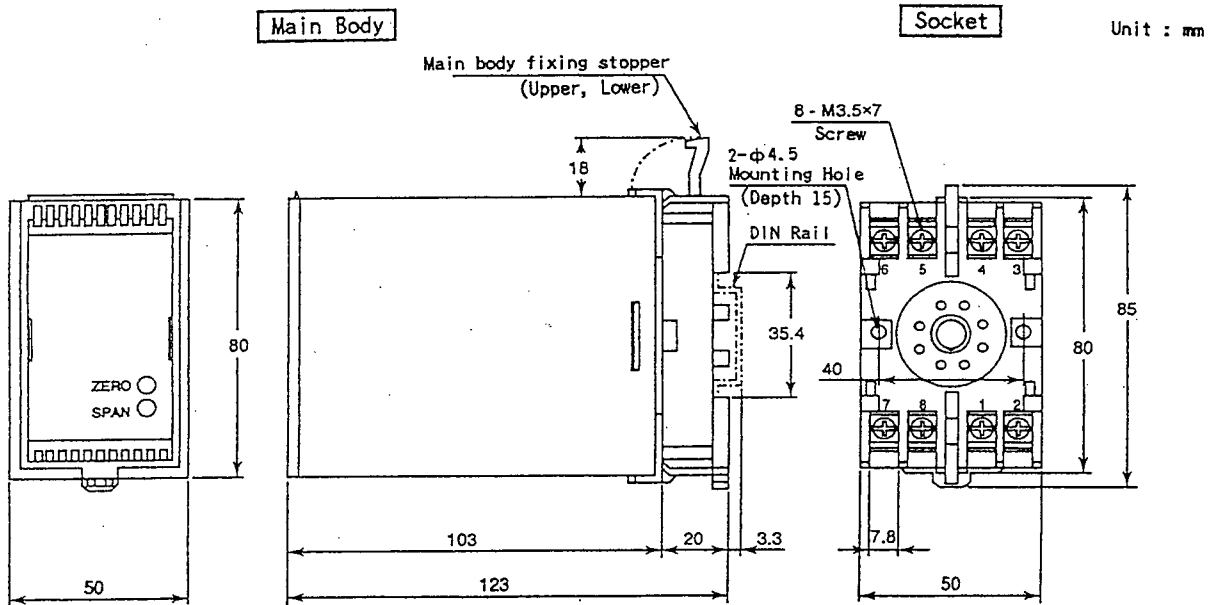


1	OUTPUT (+)
2	OUTPUT (-)
3	INPUT (A)
4	INPUT (B)
5	INPUT (B)
6	GND (G)
7	SUPPLY (L+)
8	SUPPLY (N-)

BLOCK DIAGRAM



EXTERNAL DIMENSION



Subject to change without notice for grade up quality and performance