

<Quasi-standard specifications>

RTD	Temperature Range (°C)	Input Span	Input Bias
Pt 100Ω	-200 to +850	50°C min.	Up to 4x the input span.
JPt 100Ω	-200 to +500	50°C min.	
Pt 50Ω	-200 to +600	100°C min.	
Ni 508.4Ω	-50 to +250	30°C min.	

Input Spec Ex.: For Pt 100Ω (150 to 200°C), the input span is 50°C and the bias 150°C (3x the span).

Note: Any specification out of the temperature range or bias requirement listed above is handled as a special order.

● OUTPUT SECTION

Allowable Output Load

Voltage Output (DC)	1V span and up	2mA max.
	10mV	10kΩ min.
	100mV	100kΩ min.
Current Output (DC)	4-20mA single output	750Ω max.
	4-20mA dual output	Output 1:
		Output 2:
		350Ω max.

Zero Adjustment Approx. ±5% of span. (Adjustable by the front-accessible trimmer.)

Span Adjustment Approx. ±5% of span. (Adjustable by the front-accessible trimmer.)

Burnout Protection Upscale (even if any of the three wires, A, B, and B' is opened)

Ranges Available

	Current Signal	Voltage Signal
Output Range (DC)	0 to 20mA	-10 to 10V
Output Span (DC)	4 to 20mA	10mV to 20V
Output Bias	0 to 100%	-100 to 100%

* For current output signals, the accuracy of any current output smaller than 0.1mA is not guaranteed.

Output Spec Ex. 1: For 4 to 20mA output, the output span is 16mA and the bias +25%.

Output Spec Ex. 2: For -1 to 4V output, the output span is 5V and the bias -20%.

● PERFORMANCE

Accuracy Rating	Better than ±0.15% of span (at 25°C±5°C).
Temperature Effect	Better than ±0.2% of span per 10°C change in ambient.
Response Time	170ms max. (0 to 90%) with a step input at 100%.
CMRR	100dB min. (500V AC, 50/60Hz)
Isolation	5-way isolation between input, output 1, output 2, power, and ground.
Insulation Resistance	100MΩ min. (@ 500V DC) between input, output 1, output 2, power, and ground.
Dielectric Strength	Input / [Output 1, Output 2] / [Power, Ground]: 2000V AC for 1 minute (Cutoff current: 0.5mA) Power / Ground: 2000V AC for 1 minute (Cutoff current: 5mA) Output 1 / Output 2: 500V AC for 1 minute (Cutoff current: 0.5mA)
Surge Withstand Capability	Tested as per ANSI/IEEE C37.90.1-1989.

Operating Environment Ambient temperature: -5 to 55°C
Humidity: 5 to 90% RH (non-condensing)

Storage Temperature -10 to 60°C

● PHYSICAL

Installation Wall/DIN rail mounting

Mounting Vertical

Orientation

Screwing Torque 0.78 to 1.18 [Nm] * Recommended

Wiring M3.5 screw terminal connection

External Dimensions W51 × H85 × D145.5mm

(including the socket)

Weight Main unit: 200g max.

Socket: 80g max.

● MATERIALS

Housing ABS resin (UL 94V-0)

Socket ABS resin (UL 94V-0)

Screw Terminal Galvanized steel with trivalent chromate finish

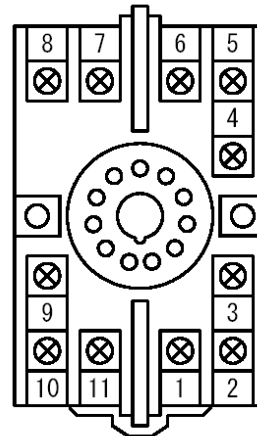
Printed Circuit Board Glass fabric epoxy resin

(FR-4: UL 94V-0)

Conformal Coating HumiSeal® 1A27NS (Polyurethane)

* HumiSeal® is a registered trademark of Chase Corporation.

TERMINAL ASSIGNMENT



①	+ OUTPUT 1
②	- OUTPUT 1
③	N.C.
④	A RTD
⑤	B RTD
⑥	B' RTD
⑦	P (+)
⑧	N (-)
⑨	GND
⑩	+ OUTPUT 2
⑪	- OUTPUT 2

BLOCK DIAGRAM

