

SPECIFICATIONS

General Specifications

INDICATING ACCURACY: $\pm 1\%$ F.S. *(near setpoint)

INDICATING RANGE: $\pm 50\%$

SETPOINT ACCURACY: $\pm 1\%$ F.S. *

SETTING RESOLUTION: $\pm 0.16\%$ F.S. or greater

SCALE LENGTH:

145 mm (160 mm including overlap at both ends)

MEASURING SYSTEM:

Thermocouple, mV, mA - potentiometer system

Thermodetector (RTD) - DC bridge system

INPUT: Thermocouple (R, K, J, E, T)

mV, mA (4 to 20 mA)

Thermodetector (RTD) (JIS Pt 100 ohms,
nickel 508 ohms)

CONTACT RATING LIFE:

3 A, 250 V AC (resistive load)

10,000,000 or more operations (115 V AC, 0.5 A)

50,000,000 or more operations (mechanical)

(Subsetting output is also the same relay.)

BURN OUT: Burn-out up scale

INPUT IMPEDANCE: 500 k Ω or greater (T/C)

SIGNAL SOURCE RESISTANCE: 0 to 100 Ω

WIRING RESISTANCE: 0 to 4 Ω (RTD)

WIRING DISTANCE UP TO WHICH

ADJUSTMENT IS UNNECESSARY: :

Up to 200 m (T/CK)

Up to approximately 500 m with 1.6 mm diameter
wire (RTD)

COLD JUNCTION COMPENSATION: Built-in (T/C)

INDUCTION RESISTIVITY:

CMR 120 dB (Up to 250 V AC)

NMR 60 dB (Double the span voltage)

OPERATING AMBIENT CONDITIONS

ALLOWABLE AMBIENT TEMPERATURE:

-10° to 50°C

ALLOWABLE STORAGE TEMPERATURE:

-20° to 60°C

ALLOWABLE AMBIENT HUMIDITY:

90% RH or less at 40°C

VIBRATION RESISTANCE: 0.5 G (10 to 60 Hz)

POWER SUPPLY VOLTAGE: 100 to 200 V AC,

50 to 60 Hz

ALLOWABLE POWER SUPPLY VOLTAGE

VARIATION:

100 V rating 85 to 110 V

200 V rating 180 to 242 V

POWER CONSUMPTION: 5 W maximum

MASK MATERIAL: Heat-resistant ABS resin

EXTERNAL CASE MATERIAL: Noriru resin

MASK STANDARD COLOR: Light beige
(Munsell 4Y7.2/1.3)

WEIGHT: 0.7 kg (0.8 kg packed for shipping)

ACCESSORIES:

Mounting brackets (1 set)

*Prescribed at the reference conditions.

*F.S. means full scale.

Individual Specifications

Model	Input	Control Form	Specification
R7670A	T/C, mV, mA	Time proportioning	Proportional band: 2.5% F.S., Cycle rate: 40 or 20 seconds (changeable at the site, switch operation at top inside of body, 40 seconds at factory shipping), manual reset: 2.5% F.S. or greater, Output contacts: SPDT
R7670B	RTD		
R7670C	T/C, mV, mA	ON-OFF	Relay differential: 0.3% F.S. Output contacts: SPDT
R7670D	RTD		
R7670E	T/C, mV, mA	ON-OFF (differential adjustable)	Relay differential: 0.5 to 10% F.S. adjustable Output contacts: SPDT
R7670F	RTD		
R7673A	T/C, mV, mA	Time proportioning +ON-OFF	Time proportioning operation has the same specifications as R7670A, B above. Relay differential: 0.6% F.S. (second stage), Second stage setting range: Main stage setting $\pm 20\%$ typical
R7673B	RTD		
R7673C	T/C, mV, mA	ON-OFF +ON-OFF	Main stage setting ON-OFF operation has the same specifications as R7670C, D above. Second-stage setting has the same specifications as R7673A, B second-stage setting above.
R7673D	RTD		
R7674A	T/C, mV, mA	Indicating meter	When the center of the scale is set to the arrow, 1.0% F.S. in range of $\pm 5\%$ from center of scale, 1.5% F.S. in -40 to +10%, others are 2.0% F.S. typical (*Because the scale can turn, the division which requires the highest accuracy can be set near the arrow.)
R7674B	RTD		