



AFP7RTD8 | FP7 Temperature input units



※Photo may vary from actual product.

Product Number	AFP7RTD8
Part Number	AFP7RTD8
Product	FP7 Temperature input units
Product name	FP7 Temperature input units

Spec Detail

As of May 30, 2021

Specifications and design of the products are subject to change without notice for the product improvement.

Item	Specifications
Product Number	AFP7RTD8
Part Number	AFP7RTD8
Number of channels	8 channels
Input range(resolution): Resistance temperature detector (resolution: 0.1 °C)	Pt100 (1): -100.0 to 200.0degrees Pt100 (2): -200.0 to 650.0degrees JPt100 (1): -100.0 to 200.0degrees JPt100 (2): -200.0 to 650.0degrees Pt1000: -100.0 to 100.0degrees
Conversion speed	25 ms/channel + 25 ms Add the drift compensation measuring time to the number of measuring channels.
Overall accuracy	plus or minus 0.1°F.S.or less(at +25degrees +77degrees Fahrenheit) plus or minus 0.3°F.S.or less(at 0 to +55degrees +32 to +131degrees Fahrenheit)
Allowable signal source resistance	R.T.D. input: 30 Ohm (three wires balanced)
Insulation method:Between input terminals and internal circuit	Photocoupler and isolated DC/DC converter
Insulation method:Between channels	PhotoMOS relay
Conversion execution / non-execution channel setting	Selectable per channel unit
Input range change method	Selectable per channel
Digital processing:Averaging	Cycle, time, moving
Digital processing:Offset setting	Any value within plus or minus 3,000
Digital processing:Gain setting	plus or minus 10%
Comparison of upper and lower limit values	Selectable for one channel
Max. and min. value holding	Selectable for one channel
Broken wire detection	Available
Connection method	Connector type terminal block
[[COMMON GENERAL SPECIFICATIONS]]Ambient temperature	0 to +55 °C +32 to +131 °F, Storage: -40 to +70 °C -40 to +158 °F
[[COMMON GENERAL SPECIFICATIONS]]Ambient humidity	10 to 95 % RH (at +25 °C +77 °F, no condensation), Storage: 10 to 95 % RH (at +25 °C +77 °F, no condensation)

[[COMMON GENERAL SPECIFICATIONS]]Breakdown voltage	500 V AC for 1 minute
[[COMMON GENERAL SPECIFICATIONS]]Insulation resistance	100 MOhm or more (at 500 V DC)
[[COMMON GENERAL SPECIFICATIONS]]Vibration resistance	5 to 8.4 Hz, single amplitude of 3.5 mm 0.138 in, 1 sweep/min. (IEC 61131-2) ; 8.4 to 150 Hz, constant acceleration of 9.8 m/s ² , 1 sweep/min. (IEC 61131-2), 10 times each in X, Y, and Z directions
[[COMMON GENERAL SPECIFICATIONS]]Shock resistance	147 m/s ² or more , 3 times each in X, Y, and Z directions (IEC61131-2)
[[COMMON GENERAL SPECIFICATIONS]]Noise immunity	1,000 V [p-p] with pulse width 50 ns and 1 micro s (using a noise simulator)
[[COMMON GENERAL SPECIFICATIONS]]Operating condition	Free from corrosive gasses and excessive dust
[[INDIVIDUAL GENERAL SPECIFICATIONS]]Rated voltage range	-
[[INDIVIDUAL GENERAL SPECIFICATIONS]]Current consumption	65 mA or less
[[INDIVIDUAL GENERAL SPECIFICATIONS]]Net weight	145 g approx.
[[INDIVIDUAL GENERAL SPECIFICATIONS]]Accessory	-

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