Honeywell TC-IXR061

RTD Input, 6-Point Module (Isolated)
Parameter Specification
Number of Points 6 galvanically isolated channels
Signal Input Ranges 1-487 Ω, 2-1000 Ω, 4-2000 Ω, 8-4020 Ω
Sensors Supported Resistance 1-487 Ω
100, 200, 500,1000 Ω Platinum, α = 0.00385
100, 200, 500,1000 Ω Platinum, α = 0.003916
120 Ω Nickel, α = 0.00672
100, 120, 200, 500 Ω Nickel, α = 0.00618
10 Ω Copper
Resolution 16 bits across each input range
487 Ω, 100 Ω Pt, 100 Ω Ni, 10 Ω Cu 7.7 milliohm/bit
1000 Ω, 200 Ω Pt, 200 Ω Ni 15 milliohm/bit
2000 Ω, 500 Ω Pt, 500 Ω Ni 30 milliohm/bit
4020 Ω, 1000 Ω Pt 60 milliohm/bit
Accuracy 0.1% FS @ 25℃
Module Update Rate for All Channels 50 milliseconds
Settling Time to 5% of Full Scale Less than 80 milliseconds
Open Wire Detection
Open Wire Detection Time
Out of Range reading reported
Less than 5 seconds
Common Mode Rejection 120 dB @ 60 Hz, 100 dB @ 50 Hz
Channel Bandwidth DC to 15 Hz (-3 db)
Normal Mode Noise Rejection 60 dB @ 60 Hz
RFI Immunity Error of less than 2.0% of FS at 10 V/m, 27 to 1000 MHz
Input Offset Drift with Temperature 10 milliohms/℃ typical
Gain Drift with Temperature 50 ppm/℃ typical
Power Dissipation 4.3 W max
Backplane Current See Module Power Consumption Data, page 46.
Isolation Voltage
Channel to channel
User to system
100% tested at 2546 VDC for 1s
100% tested at 2546 VDC for 1s
Connection Terminal Blocks TC-TBNH, 20-position terminal block

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