

I/O MODULES STANDARD ANALOG INPUT

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DATA SHEET

Form 444-010201

Description

Part Numbers Description

AD10T2 100 Ohm RTD Input Isolated

AD14T 10 Ohm RTD Input Isolated

The AD10T2 and AD14T modules provide a single channel of optically-isolated RTD temperature-to-digital conversion with

 $4,000~V_{rms}$ of transient isolation. Modules plug into any Standard Analog I/O rack and are secured by a captive screw. Field connections to the modules are made via a terminal on the base of the analog I/O rack and two terminals on the top of the I/O module. The AD10T2 and AD14T modules are suitable for temperature measurements where the RTD probe is grounded or when ground loop currents exist.



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Specifications

RTD Module Specifications

	AD10T2	AD14T
RTD Input	100 Ω platinum (∞ = 0.00385)	10 Ω copper
Nominal Temperature Range	- 50° C to 350° C	- 55° C to 150° C
Nominal Temperature Range	- 58° F to 662° F	- 67° F to 302° F
Over/Under Range	- 60° C to 812° C	N/A
Over/Under Range	- 140° F to 1493° F	N/A
Accuracy	± 0.4° C	± 0.6° C
Resolution	12 bits	12 bits
Response Time	full scale step change in 100 ms	full scale step change in 100 ms
Isolation Transient Input-to-Output Input-to-Analog Supply	4,000 Vrms 4,000 Vrms	4,000 Vrms 4,000 Vrms
Temperature Operating	0° C to 70° C - 25° C to 85° C	0° C to 70° C - 25° C to 85° C

Connections

RTD CONNECTION DIAGRAM

