

Product Selection

TC24411100



TC Series

TC484120001



TC964110100



Description	Normally Stocked Item	Catalog Number
Temperature control, 24 x 48 mm, two relay out, 90–250 Vac	Yes	TC24411100
Temperature control, 24 x 48 mm, SSR driver/relay out, 90–250 Vac	Yes	TC24412100
Temperature control, 48 x 48 mm, one relay out, relay alarm, 90–250 Vac	Yes	TC484110101
Temperature control, 48 x 48 mm, SSR driver out, 90–250 Vac	Yes	TC484120001
Temperature control, 48 x 48 mm, SSR driver out, relay alarm, 90–250 Vac	Yes	TC484120101
Temperature control, 48 x 48 mm, analog out, relay alarm, 90–250 Vac	Yes	TC484130101
Temperature control, 96 x 48 mm, one relay out, relay alarm, 90–250 Vac	Yes	TC964110100
Temperature control, 24 x 48 mm, two relay out, 11–26 Vac/Vdc	—	TC24511100
Temperature control, 48 x 48 mm, one relay out, relay alarm, 11–26 Vac/Vdc	—	TC485110101
Process control, 24 x 48 mm, analog/relay out, 90–250 Vac	—	PC24463100
Temperature control, 48 x 48 mm, analog out, relay alarm, 90–250 Vac	—	TC24413100

Technical Data and Specifications

General Specifications

Description	Specification
Power	
Power	90–250 Vac, 47–63 Hz, 10 VA (TC24), 12 VA (TC48/TC96), 5 W maximum (TCxx4) 11–26 Vac/Vdc, 10 VA (TC24), 12 VA (TC48/TC96), 5 W maximum (TCxx5)
Input	
Resolution	18 bits
Sampling rate	5 times/second
Temperature effect	±1.5 $\mu\text{V}/^{\circ}\text{C}$ for all inputs except mV input ±3.0 $\mu\text{V}/^{\circ}\text{C}$ for mV input
Sensor lead resistance effect	
T/C	0.2 $\mu\text{V}/\text{ohm}$
Three-wire RTD	2.6 $^{\circ}\text{C}/\text{ohm}$ of resistance difference of 2 leads
Two-wire RTD	2.6 $^{\circ}\text{C}/\text{ohm}$ of resistance sum of 2 leads
Burn-out current	200nA
Common mode rejection ratio (CMRR)	120dB
Normal mode rejection ratio (NMRR)	55dB
Sensor break detection	Sensor open for TC, RTD and mV inputs, sensor short for RTD input, below 1 mA for 4–20 mA, below 0.25 V for 1–5V input
Sensor break response time	Within 4 seconds for TC, RTD, and mV inputs; 0.1 second for 4–20 mA and 1–5V inputs
Output	
Relay rating	2A/240 Vac; 200,000 life cycles for resistive load
Pulsed voltage	Source voltage 5 V, current limiting resistance of 66 ohms
Linear output	
Resolution	15 bits
Output regulation	0.02% for full load change
Output setting time	0.1 sec. (stable to 99.9%)
Isolation breakdown voltage	1000 Vac
Temperature effect	±0.01% of SPAN/ $^{\circ}\text{C}$