

TC-OAV061, TK-OAV061**Table 6-8** Analog Output, 6-point, Voltage (10V) Module (Isolated)

Parameter	Specification
Number of Points	6 galvanically isolated channels
Output Voltage Range	10.50 VDC into loads of 1 K or larger
Voltage Resolution	14 bits across 21 V (1.4 millivolts) (13 bits across 10.5 V plus sign bit)
Output Impedance	Less than 3
Open Circuit Detection	None
Output Overvoltage Protection	24 VAC/VDC continuous at room temperature
Open Short Circuit Protection	Continuous with electronic current limiting
Calibrated Accuracy @ 25 C	Better than 0.1% of range
RFI Immunity	Error of less than 2.0% of range at 10 V/m, 27 to 1000 MHz
Module Update Rate for All Channels	25 ms
Output Settling Time	Less than 2 ms to 95% of final value with resistive loads
Output Offset Drift with Temperature	60 V/ C typical
Output Gain Drift with Temperature	50 ppm/ C typical
Power Dissipation	4.9 W max
Backplane Current	See Module Power Consumption Data, page 46.
Isolation Voltage	
Channel to channel	100% tested at 2546 VDC for 1s
User to system	100% tested at 2546 VDC for 1s
Connection Terminal Blocks	TC-TBNH, 20-position terminal block

TC-IXL061, TK-IXL061

Thermocouple Input, 6-Point Module

This module has been replaced by TC/TK- **IXL062**. When replacing an Tx-IXL061 with the Tx-IXL062 module, it's necessary to rewire the terminal block. When the RTP is used, a new pre-wire cable is required.

Parameter	Specification
Number of Points	6 channels plus 1 cold junction channel
Nominal Input Voltage Ranges	-12 mV to +78 mV -12 mV to +30 mV (high resolution range)
Supported Thermocouple Types	B,E,J,K,R,S,T,N,C
Resolution	16 bits (1.4 V typical) 0.70 V on high resolution range
Accuracy (millivolts) @25 C (-12 mV to +78 mV Range) (-12 mV to +30 mV Range)	0.1% FSR 90 V 0.1% FSR 42 V
Accuracy (Cold Junction Sensor) Local CJ Sensor Error Remote CJ Sensor Error	From 0.3 to 3.0 C, depending on channel 0.3 C
Common Mode Rejection	120 dB @ 60 Hz, 100 dB @ 50 Hz
Module Update Rate for All Channels	50 milliseconds
Settling Time to 5% of Full Scale	Less than 80 milliseconds
Open Circuit Detection Open TC Detection Time	Upscale reading 5 seconds typical
Channel Bandwidth	0 to 15 Hz (-3 db)
Normal Mode Noise Rejection	60 dB @ 60 Hz
RFI Immunity	Error of less than 2.0% of range at 10 V/m, 27 to 1000 MHz
Overvoltage Capability	120 VAC/VDC continuous at 25 C
Input Offset Drift with Temperature	0.5 V/ C typical
Gain Drift with Temperature	65 ppm/ C typical
Power Dissipation	4.3 W max
Backplane Current	See Module Power Consumption Data, page 46.
Spare CJR Thermistor Model Number	TC-CJRT01 (part no. 51109433-100)
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

To maintain a 3 C (5 F) Reference Junction Compensation for the thermocouple, the chassis containing the module should be mounted in a NEMA 4 or NEMA 12 enclosure that is approximately 24 in. (610mm) wide, 20 in. (508mm) high, and 8 in. (203mm) deep.