Analog output (AO) module (2100415)
XSeries products
Overview

The 2100415 TFIO module is a configurable 4 channel, 4 to 20 mA analog output module. Each point can be configured to either sink or source a 4 to 20 mA signal using either an internal or external power source.

Point specifications

Electrical (each point)
Maximum allowable voltage range on VDC source, current sink or source is 26.5VDC (VDC common is essentially System Ground).

Maximum external power source
26.5 VDC

Minimum load resistance
(internal / external powered)
0 Ohms

Maximum load resistance
(internally powered)
350 Ohms

Maximum load resistance RMAX
(Calculated)
(VDC External – 4.0) X 50.0

| TFIO analog input (type II) module pin designation |
|---|---|---|---|
| J1 | J2 | J3 | J4 |
| 1 | AO1 VDC source | AO2 VDC source | AO3 VDC source | AO4 VDC source |
| 2 | AO1 Isink | AO2 Isink | AO3 Isink | AO4 Isink |
| 3 | AO1 Isource | AO2 Isource | AO3 Isource | AO4 Isource |
| 4 | AO1 VDC common | AO2 VDC common | AO3 VDC common | AO4 VDC common |
Example connections

**POWER SUPPLY: TFIO MODULE CURRENT SINK MODE**

- VDC SOURCE (Pin 1)
- I SINK (Pin 2)
- I SOURCE (Pin 3)
- VDC COMMON (Pin 4)

**POWER SUPPLY: TFIO MODULE CURRENT SOURCE MODE**

- VDC SOURCE (Pin 1)
- I SINK (Pin 2)
- I SOURCE (Pin 3)
- VDC COMMON (Pin 4)

**POWER SUPPLY: EXTERNAL CURRENT SINK MODE**

- VDC SOURCE (Pin 1)
- I SINK (Pin 2)
- I SOURCE (Pin 3)
- VDC COMMON (Pin 4)

**POWER SUPPLY: EXTERNAL CURRENT SOURCE MODE**

- VDC SOURCE (Pin 1)
- I SINK (Pin 2)
- I SOURCE (Pin 3)
- VDC COMMON (Pin 4)