Analog input (AI) module (2100418)
XSeries products
Overview

The 2100418 TFIO module is a configurable 8-point analog input module. Each point can be configured as a 0 to 10 V voltage input or a 0 to 20 mA current input.

Point specifications

Electrical (each point)

<table>
<thead>
<tr>
<th>Input Mode</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>0 to 10V</td>
</tr>
<tr>
<td>Current</td>
<td>0 to 20mA</td>
</tr>
</tbody>
</table>

Maximum voltage mode input before soft over-range
10.7V

Maximum allowable continuous input current
22.8mA

Typical input impedance voltage mode
91.24K Ohms

Typical input impedance current mode
249.3 Ohms

TFIO analog input (type II) module pin designation

<table>
<thead>
<tr>
<th>J1</th>
<th>J2</th>
<th>J3</th>
<th>J4</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>AI1 (+)</td>
<td>AI3 (+)</td>
<td>AI5 (+)</td>
</tr>
<tr>
<td>2</td>
<td>AI1 (GND)</td>
<td>AI3 (GND)</td>
<td>AI5 (GND)</td>
</tr>
<tr>
<td>3</td>
<td>AI2 (+)</td>
<td>AI4 (+)</td>
<td>AI6 (+)</td>
</tr>
<tr>
<td>4</td>
<td>AI2 (GND)</td>
<td>AI4 (GND)</td>
<td>AI6 (GND)</td>
</tr>
</tbody>
</table>
Example connections

TYPICAL VOLTAGE INPUT FIELDS WIRING

![Diagram of voltage mode wiring](image1)

TYPICAL 2 WIRE 4–20mA DEVICE FIELD WIRING

![Diagram of current mode wiring](image2)

For further information on this and other TFIO modules refer to the User Manual.
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