

ABB MEASUREMENT & ANALYTICS | DATA SHEET

Analog input module

XSeries, RMC, and XIO



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)

Input Mode Range
 Voltage – 0 to 10V
 Current – 0 to 20mA

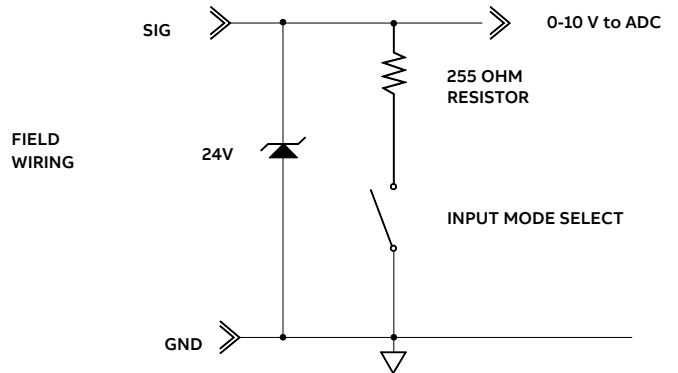
Maximum voltage mode input before soft over-range
 10.7V

Maximum allowable continuous input current
 22.8mA

Typical input impedance voltage mode
 91.24K Ohms

Typical input impedance current mode
 249.3 Ohms

Typical point schematic



TFIO analog input (type II) module pin designation				
	J1	J2	J3	J4
1	AI1 (+)	AI3 (+)	AI5 (+)	AI7 (+)
2	AI1 (GND)	AI3 (GND)	AI5 (GND)	AI7 (GND)
3	AI2 (+)	AI4 (+)	AI6 (+)	AI8 (+)
4	AI2 (GND)	AI4 (GND)	AI6 (GND)	AI8 (GND)

Hot Pluggable

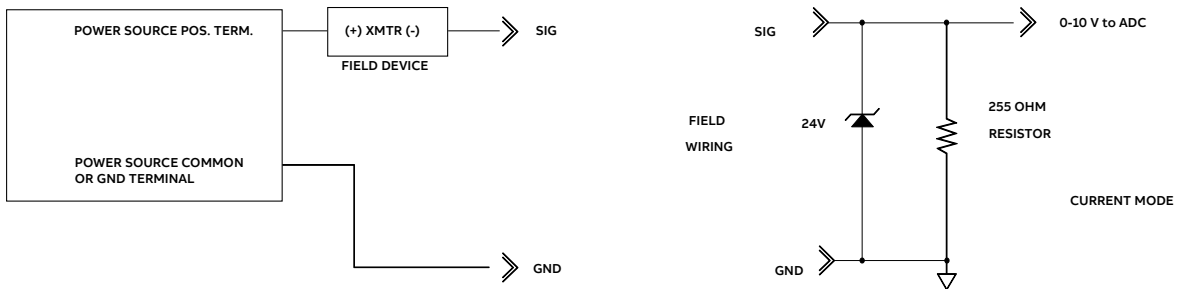
This module is hot-pluggable and can be inserted, replaced or removed during the normal operation of the device with no restart required. The system will detect the changes in the TFIO bus and reflect the state of the modules that can be verified on PCCU. User should take power precaution measurements when execution this action.

Example connections

TYPICAL VOLTAGE INPUT FIELDS WIRING



TYPICAL 2 WIRE 4–20mA DEVICE FIELD WIRING



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



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