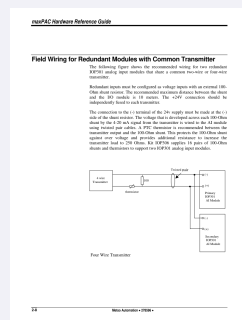


FIELD INSTALLATION QUICK GUIDE

Installation Instructions

IOP301

isolated analog input module



PRODUCT	IOP301
FAMILY	maxPAC I/O
FUNCTION	isolated analog input module
STATUS	Verify exact installed equipment

Prepared by Amikon Limited from Metso Automation documentation. This guide supplements the complete manufacturer manual and site procedure.

01

CONFIRM THE ORDERED CONFIGURATION

Input Channels	16 isolated channels
Input Configuration	Voltage or current, mixed by channel
Current Span	4 to 20 mA
Voltage Span	0 to 2.4 V
Resolution	15 bits plus sign
Scan Rate	100 ms

02

PREPARATION AND CONNECTION

- Confirm the complete IOP301 article number and installed revision.
- Isolate applicable electrical and process energy using the approved site procedure.
- Record every connector, cable, terminal, shield and protective-earth connection before removal.
- Install without forcing keyed parts, then secure terminals, latches, fasteners and cable supports.

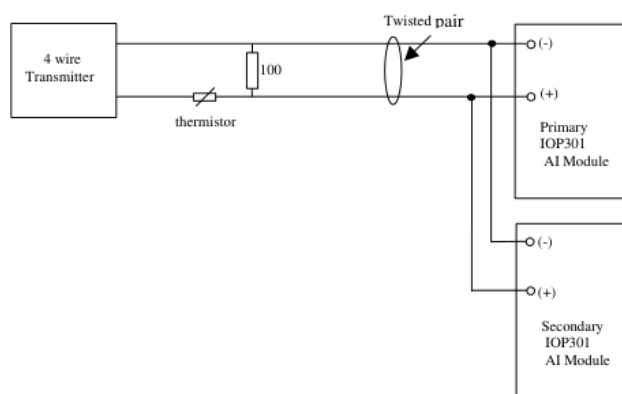
maxPAC Hardware Reference Guide

Field Wiring for Redundant Modules with Common Transmitter

The following figure shows the recommended wiring for two redundant IOP301 analog input modules that share a common two-wire or four-wire transmitter.

Redundant inputs must be configured as voltage inputs with an external 100-Ohm shunt resistor. The recommended maximum distance between the shunt and the I/O module is 10 meters. The +24V connection should be independently fused to each transmitter.

The connection to the (-) terminal of the 24v supply must be made at the (-) side of the shunt resistor. The voltage that is developed across each 100-Ohm shunt by the 4-20 mA signal from the transmitter is wired to the AI module using twisted pair cables. A PTC thermistor is recommended between the transmitter output and the 100-Ohm shunt. This protects the 100-Ohm shunt against over voltage and provides additional resistance to increase the transmitter load to 250 Ohms. Kit IOP306 supplies 16 pairs of 100-Ohm shunts and thermistors to support two IOP301 analog input modules.



Four Wire Transmitter

04 COMMISSIONING CHECKS

- 01 Confirm product identity and mechanical seating.
- 02 Verify the documented supply before energising.
- 03 Inspect polarity, shielding and protective-earth connections.
- 04 Restore power in the approved sequence and observe status indications.
- 05 Test each connected input, output or communication path.
- 06 Record diagnostics and functional-test results before return to service.

05 CONTROLLED DOCUMENT

Official source	Metso Automation official manufacturer documentation
Product record	IOP301
Manufacturer	Metso Automation
Warranty	12 months from AMIKON
Support	INFO@AMIKON.CN

AMIKON PRODUCT SUPPORT

+86-18020776786

INFO@AMIKON.CN

AMIKONG.COM