IOP302

Exact-identity installation and commissioning guide

PRODUCT SCOPE

Metso IOP302 is a maxPAC common analog input module that accepts sixteen 4-20 mA channels. It supplies individually fused 24 V transmitter loop power through the backplane and transfers converted input data to the DPU.

Verified installation basis

Module type	4-20 mA common analog input module
Input channels	16 common current-input channels
Input span	4 to 20 mA
Transmitter loop supply	24 V from the backplane, individually fused per channel
DPU4A/B mode	16 addresses and 15 available channels
DPU4E mode	2 addresses and 16 available channels
Frequency-selection jumper	W1 installed for 50 Hz; removed for 60 Hz

Verified related ApterPower product pages

- Metso PDP601
- ABB DI811 3BSE008552R1
- Allen-Bradley 2711P-RDT12H
- Allen-Bradley 2711P-T10C4D1
- Allen-Bradley 2711P-K12C4A8
- Allen-Bradley 2711P-B7C4D1/A
- Allen-Bradley 2711P-RDK10C
- Allen-Bradley 2711P-T12C4A8

Pre-work control

Record the installed system before any disconnection

Required checks

- Record the complete Metso IOP302 marking, rack position and DPU type.
- Place every connected 4-20 mA loop and the controller in the approved maintenance state.
- Isolate the 24 V system and transmitter-loop supplies before moving field wiring.
- Label all P2 and P3 conductors so channels 1-16 retain their recorded assignments.
- Match W6 to DPU4A/B or DPU4E operation and restore the correct bus-address plan.
- Set W1 for the installed 50 Hz or 60 Hz rejection requirement.

HOLD POINT

Confirm the complete IOP302 marking, installed DPU type, W1/W6 jumper positions and every P2/P3 field connection before energization.

Evidence to retain

- Complete product and installed-unit marking.
- Approved project, wiring and cabinet records.
- As-found connector, cable, address and diagnostic state.
- Acceptance plan and final results.

Verified related ApterPower product pages

ABB TU831V1 3BSE013235R1

ABB DSBC174 3BSE012211R1

Installation sequence

Use the approved manufacturer procedure and site work controls

1 IDENTIFY

Record the complete Metso IOP302 marking, rack position and DPU type.

2 ISOLATE

Place every connected 4-20 mA loop and the controller in the approved maintenance state.

3 RECORD

Isolate the 24 V system and transmitter-loop supplies before moving field wiring.

4 VERIFY

Label all P2 and P3 conductors so channels 1-16 retain their recorded assignments.

5 INSTALL

Match W6 to DPU4A/B or DPU4E operation and restore the correct bus-address plan.

6 RESTORE

Set W1 for the installed 50 Hz or 60 Hz rejection requirement.

CONFIGURATION CONTROL

The installed DPU determines the address and channel arrangement: DPU4A/B operation uses sixteen addresses for fifteen channels, while DPU4E operation uses two addresses for all sixteen channels. The W1 and W6 jumpers, P2/P3 field connections, loop-power path and bus position must therefore be preserved during replacement. Commissioning should confirm the Active LED state, diagnostic codes, channel readings and the intended 50/60 Hz rejection setting.

Verified related ApterPower product pages

ABB SR511 3BSE000863R1

Allen-Bradley 2711P-RN15S

Commissioning and acceptance

Return each affected function to its approved state

Identity	Record the complete Metso IOP302 marking, rack position and DPU type.
Configuration	Set W1 for the installed 50 Hz or 60 Hz rejection requirement.
Physical installation	Inspect the individually fused loop-power paths, connectors and channel wiring before energization.
Functional acceptance	Review the Active LED, diagnostic code behavior and every used channel value before release.
Diagnostics	Confirm that no unexplained product, communication or system diagnostic remains.
Release record	Document the final configuration, observed states, test results and responsible technician.

Verified related ApterPower product pages

- Allen-Bradley 1762-L40BWA
- Allen-Bradley 2711P-B15C22D9P
- Fuji Electric 2MBI600VXA-120E-51
- Fuji Electric NP1L-TMB

Handover record

Traceable evidence for the installed product

Final acceptance

- Match W6 to DPU4A/B or DPU4E operation and restore the correct bus-address plan.
- Set W1 for the installed 50 Hz or 60 Hz rejection requirement.
- Inspect the individually fused loop-power paths, connectors and channel wiring before energization.
- Review the Active LED, diagnostic code behavior and every used channel value before release.

Manufacturer evidence used

- Metso Automation maxPAC Hardware Reference Guide, publication 277596, Chapter 3.
- Metso Automation IOP302 module operation, diagnostics and specification tables.
- Metso Automation IOP302 P2/P3 field-wiring diagrams.

Verified related ApterPower product pages

ABB 07KR91 GJR5250000R0101

ABB 07DI92

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Additional verified ApterPower product pages

ABB 07KT92 GJR5250500R0902

ABB 07KP90 GJR5251000R0202

ABB 07EB62R1 GJV3074342R1

ABB 07KP60R101 GJV3074360R101

ABB 07NG61R1 GJV3074311R1

ABB 07PS62R2 GJV3074332R2