X20AI2237

Two-channel isolated analog voltage input module

CONTROLLED ENGINEERING COPY

Confirm the bus module and terminal block, preserve channel polarity and shield routing, then simulate negative, zero and positive values.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	X20AI2237
Manufacturer part	X20AI2237
Hardware type	2
System family	B&R X20 analog I/O

1 PLAN — 2 ISOLATE — 3 CONNECT — 4 CONFIGURE — 5 TEST

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01 PRE-INSTALLATION PLAN

1. Verify the full X20AI2237 marking and its assigned B&R X20 analog I/O position before work.
2. Place the connected machine or process in the approved maintenance state.
3. Isolate the applicable supply and two isolated +/-10 v analog input signals field energy before disconnecting conductors.
4. Record connector, conductor, address and software identities before removal.
5. Use ESD controls and protect keyed interfaces, exposed contacts and electronic assemblies.

MATCHED HARDWARE

- X20BM11 or X20BM15 bus module
- X20TB12 terminal block
- bipolar voltage sensors
- Automation Studio channel configuration

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	X20AI2237 / X20AI2237 recorded
Physical interface	X20BM11 or X20BM15 bus module
Companion check	X20TB12 terminal block
Functional proof	Measures two bipolar voltage channels
Application test	Precision position transducer input

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Inputs	2
Signal range	+/-10 V
Resolution	16 bit
Isolation	Channel-to-channel and sensor-supply isolation
Bus modules	X20BM11 or X20BM15
Terminal block	X20TB12
Timing	NetTime timestamp support

SYSTEM CONNECTION RECORD

CONNECTION ITEM	DOCUMENTED ASSIGNMENT
Installed host / carrier	X20BM11 or X20BM15 bus module
Companion hardware	X20TB12 terminal block
Field connection	bipolar voltage sensors
Primary system function	Measures two bipolar voltage channels
Controlled acceptance duty	Precision position transducer input

FIELD NOTE

Confirm the bus module and terminal block, preserve channel polarity and shield routing, then simulate negative, zero and positive values.

03 COMMISSIONING WORKFLOW

1. Confirm X20AI2237 and part number X20AI2237 against the installed record.
2. Verify the physical connection to X20BM11 or X20BM15 bus module.
3. Apply the documented technical values for inputs.
4. Exercise the function: measures two bipolar voltage channels.
5. Run a controlled test for precision position transducer input.
6. Record the final state, diagnostics and operator acceptance before release.

COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	X20AI2237 / X20AI2237 recorded
Physical interface	X20BM11 or X20BM15 bus module
Companion check	X20TB12 terminal block
Functional proof	Measures two bipolar voltage channels
Application test	Precision position transducer input

04 RETURN-TO-SERVICE RECORD

- [ ] Confirm the installed X20BM11 or X20BM15 bus module and X20TB12 terminal block against the approved project.
- [ ] Restore power in a controlled sequence and review device, network and host diagnostics.
- [ ] Prove the intended precision position transducer input function and retain the final test result.
- [ ] Confirm the intended process response before normal operation.

VERIFICATION RECORD

PRODUCT IDENTITY	X20AI2237
INSTALLED POSITION	Documented B&R X20 analog I/O position
VERIFICATION METHOD	Controlled inspection and functional test
RELEASE RECORD	Final diagnostic state retained before service

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
TC-HAO081	Related industrial automation product	View TC-HAO081 page
51306803-100	Related industrial automation product	View 51306803-100 page
51305072-700	Related industrial automation product	View 51305072-700 page
51304584-100	Related industrial automation product	View 51304584-100 page
51304159-100	Related industrial automation product	View 51304159-100 page
51195096-200	Related industrial automation product	View 51195096-200 page
8C-PAON01	Related industrial automation product	View 8C-PAON01 page
51304540-200	Related industrial automation product	View 51304540-200 page

SOURCE IDENTIFIERS

B&R official product data sheet

B&R product data

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