

X20AT6402

Six-channel thermocouple input module

B&R X20AT6402 is a Six-channel thermocouple input module. It performs the documented X20 System system role in the approved industrial installation.

IDENTITY	VERIFIED VALUE
Manufacturer	B&R
System family	X20 System
Part number	X20AT6402
Product role	Provides the documented six-channel thermocouple input module function
Lifecycle	Installed product record

DOCUMENT SCOPE

Exact-article identity, technical data, host role, installation checks, applications, precautions and engineering verification.

MODEL-SPECIFIC ENGINEERING NOTE

Record thermocouple type and polarity for every channel, maintain compatible extension wire and verify cold-junction compensation before acceptance.

APTER POWER SALES TEAM

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X20AT6402

Technical Specifications

Technical values below are limited to the named B&R product record and directly applicable manufacturer documentation.

PARAMETER	VALUE	PARAMETER	VALUE
Inputs	6	Resolution	Configurable
Thermocouples	J; K; N; S; B; R	Isolation	I/O isolated from bus; channels not isolated from each other
Terminal compensation	Integrated	Protection	IP20
Filtering	Configurable input filter		

Verified Product Record

DATA GROUP	VERIFIED VALUE
Installed host / carrier	X20 System
Primary system role	Provides the documented six-channel thermocouple input module function
Connection boundary	Record thermocouple type and polarity for every channel, maintain compatible extension wire and verify cold-junction compensation before acceptance.
Controlled acceptance duty	X20 System system maintenance

ENGINEERING BOUNDARY

Confirm B&R X20AT6402, X20 System host, hardware revision, terminals and connectors, wiring, grounding, configuration, companion accessories and controlled commissioning results before service release.

Pre-Installation Checks

- 1

Confirm the complete B&R X20AT6402 marking and installed X20 System position before work.
- 2

Place the machine or process in the approved maintenance state and isolate every applicable energy source.
- 3

Record power, signal, network, terminal and protective-ground connections before removal.
- 4

Use ESD controls and protect keyed connectors, terminals and exposed electronics from contamination.

Documented Service Record

RECORD ITEM	REQUIRED ENTRY
As-found article	X20AT6402
Installed host	X20 System
Connection record	Capture before removal
Controlled release	Diagnostics and functional proof

System Role and Architecture

B&R X20AT6402 is a Six-channel thermocouple input module. It performs the documented X20 System system role in the approved industrial installation.

FUNCTION 1
Provides the documented six-channel thermocouple input module function

FUNCTION 2
Uses exact B&R article identity X20AT6402

FUNCTION 3
Integrates with the matched X20 System hardware

FUNCTION 4
Supports controlled diagnostics and functional verification

Matched System Components

NO.	DOCUMENTED COMPONENT / ROLE
1	X20 System
2	J; K; N; S; B; R
3	X20 System system maintenance
4	Record thermocouple type and polarity for every channel, maintain compatible extension wire and verify cold-junction compensation before acceptance.

System Integration Record

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	X20 System
Interface role	Provides the documented six-channel thermocouple input module function
Field / power context	The component is used with the exact carrier, terminal, power, signal and network arrangement approved for B&R X20AT6402. Commissioning preserves the installed configuration and verifies controlled system response.
Commissioning evidence	Complete a controlled functional test and retain the acceptance result before production release.

Installation and Connection Checks

1
Verify inputs (6) against the installed project and connected hardware.

2
Verify thermocouples (J; K; N; S; B; R) and restore only the approved configuration.

3
Energize in the prescribed sequence and review module, host and network diagnostics.

4
Complete a controlled functional test and retain the acceptance result before production release.

MANUFACTURER SOURCE RECORD

B&R X20AT6402 product data
B&R product record X20AT6402

Applications and Engineering Context

X20 System system maintenance

Restores the documented six-channel thermocouple input module function in an engineered installation.

Control-panel modernization

Preserves the approved B&R hardware identity during a controlled system upgrade.

Installed-interface verification

Confirms the documented inputs and thermocouples before process release.

Controlled recommissioning

Verifies configuration, diagnostics and field response after maintenance or replacement.

TECHNICAL NOTE

Record thermocouple type and polarity for every channel, maintain compatible extension wire and verify cold-junction compensation before acceptance.

Model-Specific Acceptance Evidence

CHECK	ACCEPTANCE CONDITION
Identity	X20AT6402 recorded
Host / carrier	X20 System
Physical interface	Provides the documented six-channel thermocouple input module function
Configuration	Energize in the prescribed sequence and review module, host and network diagnostics.
Functional proof	Complete a controlled functional test and retain the acceptance result before production release.

IMPORTANT NOTICE

Confirm B&R X20AT6402, X20 System host, hardware revision, terminals and connectors, wiring, grounding, configuration, companion accessories and controlled commissioning results before service release.

Controlled Release Summary

RELEASE ITEM	MODEL-SPECIFIC CONDITION
Article identity	X20AT6402
Approved role	X20 System system maintenance
Final validation	Complete a controlled functional test and retain the acceptance result before production release.

Engineering Precautions

1	Confirm the complete B&R X20AT6402 marking and installed X20 System position before work.	2	Place the machine or process in the approved maintenance state and isolate every applicable energy source.
3	Record power, signal, network, terminal and protective-ground connections before removal.	4	Use ESD controls and protect keyed connectors, terminals and exposed electronics from contamination.
5	Verify inputs (6) against the installed project and connected hardware.	6	Verify thermocouples (J; K; N; S; B; R) and restore only the approved configuration.
7	Energize in the prescribed sequence and review module, host and network diagnostics.	8	Complete a controlled functional test and retain the acceptance result before production release.

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
B&R 7EX290.50-1	Related industrial automation product	View B&R 7EX290.50-1 page
B&R X20AI2237	Related industrial automation product	View B&R X20AI2237 page
B&R 7CP476.60-1	Related industrial automation product	View B&R 7CP476.60-1 page
B&R 7CP474.60-1	Related industrial automation product	View B&R 7CP474.60-1 page
B&R 8I0IF109.400-2	Related industrial automation product	View B&R 8I0IF109.400-2 page
B&R 8I0IF109.400-1	Related industrial automation product	View B&R 8I0IF109.400-1 page
B&R 5ACPCI.ETH3-01	Related industrial automation product	View B&R 5ACPCI.ETH3-01 page
B&R 5AP1130.185C-000	Related industrial automation product	View B&R 5AP1130.185C-000 page

MANUFACTURER SOURCE RECORD

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