

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.

BRAND	B&R	FAMILY	X20 System
PART	X20AT6402	SYSTEM ROLE	Provides the documented six-channel thermocouple input module function

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X20AT6402

MANUFACTURER SOURCE RECORD

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

Product Overview

SYSTEM FUNCTION

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

System Components

COMPONENT	DOCUMENTED ROLE
Host / carrier	X20 System
Primary interface	Provides the documented six-channel thermocouple input module function
Engineering 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 duty	Complete a controlled functional test and retain the acceptance result before production release.

TECHNICAL NOTE

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

Technical Data

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		

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER 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
Bihl+Wiedemann BWU3274	Related industrial automation product	View Bihl+Wiedemann BWU3274 page
Bihl+Wiedemann BWU1777	Related industrial automation product	View Bihl+Wiedemann BWU1777 page
Anybus AB7000-C	Related industrial automation product	View Anybus AB7000-C page
Anybus AB9001-B	Related industrial automation product	View Anybus AB9001-B page
Anybus AB7007-C	Related industrial automation product	View Anybus AB7007-C page
Anybus AB5030-B	Related industrial automation product	View Anybus AB5030-B page

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.

Applications and Precautions

Common Applications

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.

Product 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.

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.

ACCEPTANCE CHECK	REQUIRED EVIDENCE
Identity	X20AT6402
Configuration	Energize in the prescribed sequence and review module, host and network diagnostics.
Functional release	Complete a controlled functional test and retain the acceptance result before production release.

Engineer FAQ

Q1 Which X20 System position accepts X20AT6402?

Use the approved X20 System position and confirm the complete B&R X20AT6402 article identity.

Q3 Which value is checked first for X20AT6402?

Check inputs: 6.

Q5 What should be recorded before removing X20AT6402?

Record every power, signal, network, terminal and configuration assignment.

Q7 How is X20AT6402 recommissioned?

Restore the approved hardware and project, then review diagnostics in the prescribed startup sequence.

Q2 Which documented function does X20AT6402 provide?

It provides the documented six-channel thermocouple input module role in the configured system.

Q4 Which second interface value governs X20AT6402?

Verify thermocouples: J; K; N; S; B; R.

Q6 How is X20AT6402 handled safely?

Isolate applicable energy, apply ESD controls and protect all connectors and terminals.

Q8 What releases X20AT6402 to service?

A controlled functional test with the expected response and no unresolved diagnostics.

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