

X20AI4222

Four-Channel +/-10 V Analog Input Module

B&R X20AI4222 is a four-channel +/-10 v analog input module for the documented X20 System installation.

PRODUCT SNAPSHOT

BRAND
B&R

FAMILY
X20 System

PART
X20AI4222

DOCUMENT STATUS
Controlled engineering copy

APTER POWER

WHATSAPP / PHONE

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WEBSITE

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PRODUCT OVERVIEW

B&R X20AI4222 is a four-channel +/-10 v analog input module for the documented X20 System installation.

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Provides four-channel differential voltage acquisition
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Uses exact B&R article identity X20AI4222
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Matches analog inputs: 4
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Matches signal range: +/-10 V

SYSTEM COMPONENTS

DOCUMENTED COMPONENT	ROLE IN SYSTEM
Proximity probe	Matched extension cable
Proximator Sensor	AISI 4140 target

ENGINEERING CONTEXT

The product performs four-channel differential voltage acquisition in the documented X20 I/O station. Installation and commissioning must preserve the exact identity, interfaces and approved configuration.

TECHNICAL DATA

PARAMETER	VALUE
Analog inputs	4
Signal range	+/-10 V
Input type	Differential
Converter resolution	13 bit including sign
Conversion time	400 us for all inputs

PARAMETER	VALUE
Input impedance	20 Mohm
Bus module	X20BM11 or X20BM15
Terminal block	X20TB12
Protection	IP20

TECHNICAL NOTE

Confirm B&R X20AI4222, X20 I/O station, four +/-10 V differential inputs and X20TB12, wiring, grounding, configuration, companion accessories and controlled commissioning results before service release.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

X20 System system maintenance

Restores four-channel differential voltage acquisition in the documented installation.

Controlled hardware replacement

Preserves the exact X20AI4222 identity and approved configuration.

Interface verification

Confirms four +/-10 V differential inputs and X20TB12 before energization.

Functional recommissioning

Reviews diagnostics and records the controlled system response.

PRODUCT PRECAUTIONS

1

Confirm the complete B&R X20AI4222 marking and installed X20 System position before work.

2

Place the machine or process in the approved maintenance state and isolate every applicable energy

3

Record four +/-10 V differential inputs and X20TB12, terminal assignments, shielding and protective-ground

4

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

5

Verify analog inputs (4) against the installed project and connected hardware.

6

Verify signal range (+/-10 V) and restore only the approved configuration.

7

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

8

Complete a controlled four-channel differential voltage acquisition test and retain the acceptance result before

ENGINEER FAQ

Q1 How is the exact X20AI4222 execution identified?

Match the complete B&R X20AI4222 marking and the controlled installed-position record.

Q2 What documented role does X20AI4222 perform?

It performs four-channel differential voltage acquisition in the documented X20 I/O station.

Q3 Which host must be matched before fitting X20AI4222?

Match the exact X20 I/O station and approved system position.

Q4 Which interfaces must be recorded for X20AI4222?

Record four +/-10 V differential inputs and X20TB12, mounting, shielding, grounding and cable routing.

Q5 What isolation controls apply to X20AI4222?

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

Q6 What must be restored after installing X20AI4222?

Verify signal range (+/-10 V) and restore only the approved configuration.

Q7 What proves X20AI4222 is ready for service?

Retain diagnostics and a controlled four-channel differential voltage acquisition response test.

Q8 Which manufacturer record supports the X20AI4222 page?

Data sheet X20AI4222 and the official B&R product record for X20AI4222.

RELATED APTER POWER PAGES

330907-05-30-10-12	330171-00-10-10-02-05	330171-12-41-10-02-05	330101-12-28-10-02-00
330104-00-20-10-02-05	330101-08-20-10-02-05	330102-00-40-05-01-00	330904-00-12-05-02-05

SOURCE B&R X20AI4222 product data | Data sheet X20AI4222

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