

B&R X20AO2622

Analog Output Module

B&R; X20AO2622 provides two software-configurable analog channels for voltage or current actuation in an X20 station. Different terminal connections select +/-10 V, 0-20 mA or 4-20 mA operation for each documented field loop.

BRAND	B&R;	ORIGIN	Austria
MODEL	B&R; X20AO2622	PRODUCT	Analog Output Module
FAMILY	X20 System	SOURCE	B&R; version 3.16, 2025-09-15

MANUFACTURER SOURCE RECORD

Data sheet X20AO2622
B&R; version 3.16, 2025-09-15

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 531
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com



B&R X20AO2622

Product Overview

SYSTEM FUNCTION

B&R; X20AO2622 provides two software-configurable analog channels for voltage or current actuation in an X20 station. Different terminal connections select +/-10 V, 0-20 mA or 4-20 mA operation for each documented field loop.

FUNCTION 1

Drives two process actuators from one compact X20 slice

FUNCTION 2

Selects voltage or current operation through dedicated terminal paths

FUNCTION 3

Uses an internal enable relay to control startup behavior

FUNCTION 4

Protects both analog outputs with short-circuit current limiting

TECHNICAL NOTE

Confirm the voltage or current terminal path before wiring B&R; X20AO2622; software selection alone does not replace the required terminal connection. Verify the configured range, load, safe startup value and full-scale response on both channels.

Technical Data and Acceptance

PARAMETER	VERIFIED VALUE
Analog outputs	2
Voltage range	+/-10 V
Current ranges	0 to 20 mA or 4 to 20 mA
Converter resolution	+/-12-bit voltage; 12-bit current
Conversion time	200 us for all outputs
Full-range settling time	1 ms
Voltage load	>=1 kohm; maximum +/-10 mA
Current load	Maximum 600 ohm for revision J0 or later
Output protection	Short-circuit proof; +/-40 mA current limiting
Isolation	500 Veff between channel and bus
B&R; ID code	0x1BA2
Terminal block	X20TB06 or X20TB12

ENGINEERING BOUNDARY

Confirm the voltage or current terminal path before wiring B&R; X20AO2622; software selection alone does not replace the required terminal connection. Verify the configured range, load, safe startup value and full-scale response on both channels.

Acceptance Path

1 IDENTITY

B&R; X20AO2622 and both analog loop duties are recorded.

2 WIRING

Each signal is landed on the correct voltage or current terminals.

3 ELECTRICAL

Load, range and output values comply with the data sheet.

4 FUNCTIONAL PROOF

Both actuators track commanded values across the approved span.

Applications and Engineering FAQ

APPLICATION	ENGINEERING CONTEXT
Valve-position command	B&R; X20AO2622 sends a 4-20 mA command to a compatible process actuator.
Drive speed reference	A +/-10 V channel supplies a bipolar reference within the documented load limit.
Process setpoint generation	Two current or voltage loops deliver controller setpoints to field equipment.
Dual-channel actuator retrofit	The module restores two documented analog commands while preserving terminal path, scaling and safe startup values.

Model-Specific FAQ - Part 1

QUESTION	ANSWER
Why does B&R; X20AO2622 require the correct terminal path as well as software configuration?	The module selects current or voltage through different terminal connections, so the physical landing must match the configured signal type.
Which bipolar command can B&R; X20AO2622 generate?	The voltage mode provides a documented +/-10 V output with signed 12-bit conversion.
What current-loop ranges are available from B&R; X20AO2622?	The current terminals support 0-20 mA and 4-20 mA operation with 12-bit conversion.
How does B&R; X20AO2622 behave during output startup?	B&R; specifies an internal enable relay that controls switch-on and switch-off behavior during startup.

FAQ, Related Products and Source

QUESTION	ANSWER
Which load limit applies to B&R; X20AO2622 voltage mode?	The load must be at least 1 kohm and the output is limited to +/-10 mA, with the stated voltage-dependent maximum current.
When may a B&R; X20AO2622 current output drive 600 ohm?	The 600 ohm maximum applies to hardware revision J0 or later; earlier revisions are limited to 500 ohm.
What response time should a B&R; X20AO2622 loop test demonstrate?	Conversion for all outputs is 200 microseconds and a full-range output change settles in 1 ms.
How is B&R; X20AO2622 protected during a short circuit?	The outputs are short-circuit proof and use current limiting at approximately +/-40 mA; correct wiring and load validation are still required.

Related Products on Apter Power

MODEL	APTER POWER PAGE
GE 8021-CE-LH	View GE 8021-CE-LH page
GE 8810-HI-TX-01	View GE 8810-HI-TX-01 page
GE 8811-IO-DC	View GE 8811-IO-DC page
GE 8851-LC-MT	View GE 8851-LC-MT page
GE DS200TCEAG1BSF	View GE DS200TCEAG1BSF page
GE IC600BF843	View GE IC600BF843 page
GE IC693ALG391	View GE IC693ALG391 page
GE IC693ALG391G	View GE IC693ALG391G page

MANUFACTURER SOURCE RECORD

Data sheet X20AO2622
B&R; version 3.16, 2025-09-15

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com



B&R X20AO2622