

B&R - X20 System

X20AO4622

Analog Output Module

Technical specifications

Analog outputs	4
Output ranges	± 10 V; 0 to 20 mA; 4 to 20 mA
Signal selection	Different terminal connections
Digital converter resolution	Voltage ± 12 -bit; current 12-bit
Conversion time	300 μ s for all outputs
Settling time	500 μ s across the entire output range
Voltage load	At least 1 k Ω ; maximum ± 10 mA
Current load	Maximum 600 Ω for Rev. $\geq$ J0; 500 Ω for Rev. $<$ J0
Startup behavior	Internal enable relay
Output protection	Short-circuit proof with ± 40 mA current limiting
Output filter	First-order low-pass; 10 kHz cutoff
Electrical isolation	Channel isolated from bus; channels not isolated from one another
Internal I/O power	1.8 W for Rev. $\geq$ J0; 2.2 W for Rev. $<$ J0
Required terminal block	X20TB12, ordered separately

Documented role

B&R X20AO4622 is a four-channel analog output module for ± 10 V, 0 to 20 mA, or 4 to 20 mA signals with short-circuit protection for the X20 System.

Documented applications

- Providing ± 10 V commands to compatible industrial actuators and drives
- Generating 0 to 20 mA or 4 to 20 mA commands for process-control devices
- Distributed analog control connected to standard fieldbus control systems

Selection and installation checks

X20AO4622 has revision-dependent current-load, power, and temperature limits; identify whether the hardware is Rev. J0 or later, then verify output terminals, load resistance, scaling, X20TB12, and X20BM11 or X20BM15.