

INDUSTRIAL AUTOMATION PRODUCT

X20AP3131

Three-Phase Power and Energy Metering Module

B&R X20AP3131 is a three-phase power and energy metering module for the documented X20 System installation.

CONTROLLED ENGINEERING COPY

IDENTITY	VERIFIED VALUE
Manufacturer	B&R
System family	X20 System
Part number	X20AP3131
Document status	Controlled product and system reference

DOCUMENT SCOPE

Exact article identity, official technical data, host matching, installation checks, applications, precautions and controlled acceptance evidence.

MODEL-SPECIFIC ENGINEERING NOTE

Confirm B&R X20AP3131, X20 I/O station with current transformers, three voltage phases, current-transformer inputs, X20BM32 and X20TB32, wiring, grounding, configuration, companion accessories and controlled commissioning results before service release.

System Role and Architecture

B&R X20AP3131 is a three-phase power and energy metering module for the documented X20 System installation.

FUNCTION 1
Provides three-phase power and energy measurement

FUNCTION 2
Uses exact B&R article identity X20AP3131

FUNCTION 3
Matches function: 3-phase power and energy metering

FUNCTION 4
Matches voltage phase-to-phase: Maximum 480 VAC

MATCHED SYSTEM COMPONENTS

NO.	DOCUMENTED COMPONENT / ROLE
01	X20 System
02	X20 I/O station with current transformers
03	three voltage phases, current-transformer inputs, X20BM32 and X20TB32
04	Approved wiring, shielding and grounding arrangement

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	X20 System
Interface role	three-phase power and energy measurement
Field / power context	X20 I/O station with current transformers
Commissioning evidence	Identity, gap, polarity, response and alarm diagnostics recorded

INSTALLATION AND CONNECTION CHECKS

- 1

Confirm the complete B&R X20AP3131 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 three voltage phases, current-transformer inputs, X20BM32 and X20TB32, terminal assignments, shielding and protective-ground
- 4

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

Technical Specifications

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

PARAMETER	VALUE	PARAMETER	VALUE
Function	3-phase power and energy metering	Calculated values	Active, reactive and apparent power
Voltage phase-to-phase	Maximum 480 VAC	Bus module	X20BM32
Voltage phase-to-neutral	Maximum 277 VAC	Terminal block	X20TB32
Frequency range	45 to 65 Hz	Module width	25 mm
Frequency resolution	0.01 Hz		

ENGINEERING BOUNDARY

Confirm B&R X20AP3131, X20 I/O station with current transformers, three voltage phases, current-transformer inputs, X20BM32 and X20TB32, wiring, grounding, configuration, companion accessories and controlled commissioning results before service release.

PRE-INSTALLATION CHECKS

- 1

Confirm the complete B&R X20AP3131 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 three voltage phases, current-transformer inputs, X20BM32 and X20TB32, terminal assignments, shielding and protective-ground
- 4

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

Applications and Engineering Context

X20 System system maintenance

Restores three-phase power and energy measurement in the documented installation.

Controlled hardware replacement

Preserves the exact X20AP3131 identity and approved configuration.

Interface verification

Confirms three voltage phases, current-transformer inputs, X20BM32 and X20TB32 before energization.

Functional recommissioning

Reviews diagnostics and records the controlled system response.

TECHNICAL NOTE

Confirm B&R X20AP3131, X20 I/O station with current transformers, three voltage phases, current-transformer inputs, X20BM32 and X20TB32, wiring, grounding, configuration, companion accessories and controlled commissioning results before service release.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	X20AP3131 recorded
Host / carrier	X20 System
Physical interface	three voltage phases, current-transformer inputs, X20BM32 and X20TB32 matched
Configuration	Exact installed configuration and assignments restored
Functional proof	Controlled three-phase power and energy measurement response recorded

IMPORTANT NOTICE

Confirm B&R X20AP3131, X20 I/O station with current transformers, three voltage phases, current-transformer inputs, X20BM32 and X20TB32, wiring, grounding, configuration, companion accessories and controlled commissioning results before service release.

Related Products and Source Record

Brand-qualified Apter Power navigation links are provided for system planning only; manufacturer evidence remains the named source record.

RELATED PRODUCTS ON APTER POWER	
01	Bently Nevada 330103-00-04-10-12-05
02	Bently Nevada 330101-00-15-20-02-00
03	Bently Nevada 330104-01-06-10-01-05
04	Bently Nevada 330104-01-14-10-01-05
05	Bently Nevada 330730-80-02-00
06	Bently Nevada 330102-08-50-10-02-05
07	Bently Nevada 330103-00-07-05-01-00
08	Bently Nevada 330101-00-36-10-02-00

Navigation links only - not manufacturer evidence for technical parameters.

MANUFACTURER SOURCE RECORD

B&R X20AP3131 product data | Data sheet X20(c)AP31xx

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