

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.

PRODUCT SNAPSHOT

BRAND
B&R

FAMILY
X20 System

PART
X20AP3131

DOCUMENT STATUS
Controlled engineering copy

APTER POWER

WHATSAPP / PHONE

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PRODUCT OVERVIEW

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

- Provides three-phase power and energy measurement
- Uses exact B&R article identity X20AP3131
- Matches function: 3-phase power and energy metering
- Matches voltage phase-to-phase: Maximum 480 VAC

SYSTEM COMPONENTS

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

ENGINEERING CONTEXT

The product performs three-phase power and energy measurement in the documented X20 I/O station with current transformers. Installation and commissioning must preserve the exact identity, interfaces and approved configuration.

TECHNICAL DATA

PARAMETER	VALUE
Function	3-phase power and energy metering
Voltage phase-to-phase	Maximum 480 VAC
Voltage phase-to-neutral	Maximum 277 VAC
Frequency range	45 to 65 Hz
Frequency resolution	0.01 Hz

PARAMETER	VALUE
Calculated values	Active, reactive and apparent power
Bus module	X20BM32
Terminal block	X20TB32
Module width	25 mm

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.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

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.

PRODUCT PRECAUTIONS

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

3

Record three voltage phases, current-transformer inputs, X20BM32 and X20TB32, terminal assignments,

4

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

5

Verify function (3-phase power and energy metering) against the installed project and connected hardware.

6

Verify voltage phase-to-phase (Maximum 480 VAC) and restore only the approved configuration.

7

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

8

Complete a controlled three-phase power and energy measurement test and retain the acceptance result

ENGINEER FAQ

Q1 How is the exact X20AP3131 execution identified?

Match the complete B&R X20AP3131 marking and the controlled installed-position record.

Q2 What documented role does X20AP3131 perform?

It performs three-phase power and energy measurement in the documented X20 I/O station with current transformers.

Q3 Which host must be matched before fitting X20AP3131?

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

Q4 Which interfaces must be recorded for X20AP3131?

Record three voltage phases, current-transformer inputs, X20BM32 and X20TB32, mounting, shielding, grounding and cable routing.

Q5 What isolation controls apply to X20AP3131?

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

Q6 What must be restored after installing X20AP3131?

Verify voltage phase-to-phase (Maximum 480 VAC) and restore only the approved configuration.

Q7 What proves X20AP3131 is ready for service?

Retain diagnostics and a controlled three-phase power and energy measurement response test.

Q8 Which manufacturer record supports the X20AP3131 page?

Data sheet X20(c)AP31xx and the official B&R product record for X20AP3131.

RELATED APTER POWER PAGES

330102-00-40-10-01-00	330851-06-000-070-50-00-05	330194-17-25-15-00	330800-28-20-057-03-02
330104-01-06-10-01-00	330101-00-15-15-02-05	330101-00-31-15-02-05	330104-00-02-50-02-00

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

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