Yokogawa PW482-10

Installation & Commissioning Guide

Yokogawa PW482-10 is a 220 to 240 V AC power-supply execution for supported field control and I/O node units.

PRODUCT ROLE AND VERIFIED FEATURES

Feature 1

Accepts 220 to 240 V AC input.

Feature 2

Connects through the unit's exclusive power connector.

Feature 3

Installs in supported FCU, FIO and optical repeater units.

Feature 4

Supports a two-module dual-redundant power arrangement.

VERIFIED DATA SNAPSHOT

Input voltage	220 to 240 V AC ±10%
Input frequency	50/60 Hz ±3 Hz
Maximum power consumption	230 VA
Interface	Exclusive connector
Installation units	FCU, FIO Node Unit and Optical ESB Bus Repeater Unit
Redundancy	Two-module dual-redundant configuration
Output use	Exclusive internal unit power; not a generic supply

SYSTEM RELATIONSHIP

Field device → **Product interface** → **System channel** → **Verified response**

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Pre-installation readiness

READINESS GATE

Identity

Compare the complete marking with the approved work order and installed record.

System match

Confirm the receiving channel, mating components and controlled configuration.

Physical condition

Inspect mounting surfaces, connectors, terminals, cable and support hardware.

Work controls

Apply authorized isolation, bypass, access and restoration procedures.

TECHNICAL PROFILE FOR THE WORK

Input voltage

220 to 240 V AC ±10%

Input frequency

50/60 Hz ±3 Hz

Maximum power consumption

230 VA

Interface

Exclusive connector

Installation units

FCU, FIO Node Unit and Optical ESB Bus Repeater Unit

Redundancy

Two-module dual-redundant configuration

Output use

Exclusive internal unit power; not a generic supply

IMPORTANT NOTICE

Resolve every unmatched interface, configuration or receiving-system condition before removal or installation.

CONFIGURATION AND WORK CONTROLS

Configuration identity	Yokogawa PW482-10
Technical boundary	Apply only the functions and interfaces shown for this product or its identified system family.
Selection control	Match the complete ordering string and installed interfaces before purchase or installation.

Installation sequence

CONTROLLED WORK STEPS

01	Confirm the full PW482-10 marking and assigned power slot.
02	Record incoming voltage, breaker and redundant-module status.
03	Isolate both supply paths before removing the module.
04	Do not use the module as a general-purpose external DC supply.
05	Inspect the exclusive connector and retention hardware.
06	Install the module without disturbing the companion supply.
07	Energize one documented path at a time and watch fault indications.
08	Verify unit power, redundancy and controller or node operation before release.

CONNECTION RECORD

As found	Photograph and label every connection and installed orientation before removal.
Mechanical	Record mounting position, support, clearance and connector engagement.
Electrical	Record polarity, common, shield, channel assignment and cable route.
Configuration	Preserve approved settings, scaling, alarm logic and acceptance limits.
As left	Record the final physical condition and any controlled deviation.

Field device → **Product interface** → **System channel** → **Verified response**

WORK HOLD POINTS

Before removal	Identity, position, wiring, orientation and controlled settings recorded.
Before connection	Mating interfaces, condition and routing reviewed.
Before power-up	Mechanical work, wiring, shielding and configuration independently checked.
Before release	Static value, dynamic response and protection behavior accepted.

Commissioning and functional proof

COMMISSIONING SEQUENCE

Initial state

Observe status at power-up and check for unexpected fault or alarm indication.

Static value

Verify the expected bias, gap, loop, contact or channel value for the application.

Dynamic response

Apply the approved machine or test stimulus and confirm response and scaling.

Protection path

Verify the configured alarm, relay, data or receiving-system behavior.

APPLICATION-SPECIFIC EVIDENCE

Field control unit power

Supplies compatible FCU internal electronics.

FIO node power

Feeds supported field I/O node units.

Optical ESB repeater power

Operates the documented bus repeater unit.

Redundant station supply

Pairs two modules to maintain the configured dual power path.

ACCEPTANCE RECORD

Identity	Complete marking and final installed position recorded.
Physical inspection	Mounting, connectors, terminals and routing checked.
Channel status	Expected status and configured measurement confirmed.
Functional test	Required output or protection response demonstrated.
Restoration	Bypasses removed and operating state approved.

COMMISSIONING QUESTIONS

Which mains range is specified for Yokogawa PW482-10?	The module accepts 220 to 240 V AC with a tolerance of ±10 percent.
How tightly is input frequency defined for Yokogawa PW482-10?	The documented input is 50 or 60 Hz with a tolerance of ±3 Hz.
What is the maximum input demand of Yokogawa PW482-10?	Maximum power consumption is 230 VA.
Can Yokogawa PW482-10 be wired as a generic external power supply?	No. Yokogawa specifies it as an exclusive module for supported control and node units, so external output ratings are not defined.

Release record and technical references

CLOSEOUT QUESTIONS

Which units accept Yokogawa PW482-10?	Supported installations include field control units, FIO node units and Optical ESB Bus Repeater Units.
How is dual redundancy obtained with Yokogawa PW482-10?	Install two documented power modules in the supported unit to form the dual-redundant supply configuration.
Which connector must be checked on Yokogawa PW482-10?	The module uses the unit's exclusive power connector; inspect alignment, contact condition and retention.
What should be observed after energizing Yokogawa PW482-10?	Confirm normal unit power, absence of supply faults, healthy companion-module status and uninterrupted controller or node operation.

RELATED MODELS FOR INSTALLATION PLANNING

Yokogawa AAM50	Installation-planning reference. Review the complete ordering string before selection.
Yokogawa AAI835-S00 S2	Installation-planning reference. Compare the required interface and system position.
Yokogawa AIP830-101 S2	Installation-planning reference. Confirm the execution independently for the intended task.

CONFIGURATION AND FINAL CONTROL

Configuration identity	Yokogawa PW482-10
Technical boundary	Apply only the functions and interfaces shown for this product or its identified system family.
Selection control	Match the complete ordering string and installed interfaces before purchase or installation.

IMPORTANT NOTICE	Release the equipment only after the responsible site authority accepts the recorded result.

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