

# PW404-S1

## CENTUM Power Supply Module

INSTALLATION, INTERFACE AND VALIDATION WORKBOOK

Yokogawa PW404-S1 is a PW404 power-supply module identified for a documented CENTUM distributed-control installation. It supplies the matched controller or I/O hardware in its approved cabinet position.

| STEP | GATE     | ENGINEERING PURPOSE                |
|------|----------|------------------------------------|
| 01   | IDENTIFY | Confirm article, host and hardware |
| 02   | ISOLATE  | Secure power and stored energy     |
| 03   | CONNECT  | Restore documented interfaces      |
| 04   | VALIDATE | Prove diagnostics and function     |

### WORKBOOK PURPOSE

Field-ready identity, isolation, connection, commissioning and closeout records for this exact Yokogawa article.

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PW404-S1

# Installation Readiness Gate

Complete the identity, host-system and isolation checks before disturbing the installed hardware.

- 1

Confirm the complete PW404-S1 marking and installed cabinet position.
- 2

Place the controlled process and associated CENTUM node in the approved maintenance state.
- 3

Isolate the affected supply path and prove it de-energized.
- 4

Record incoming supply, output connector, alarm and protective-earth connections.

## Pre-Work Evidence

| EVIDENCE ITEM            | RECORDED VALUE                                                             |
|--------------------------|----------------------------------------------------------------------------|
| Complete article marking | PW404-S1                                                                   |
| Host / carrier           | Yokogawa CENTUM distributed control system                                 |
| Primary system role      | Provides the installed CENTUM power-supply function                        |
| Acceptance boundary      | Verify stable process-control operation before release.                    |
| Source record            | CENTUM Distributed Control System Product Pollution Prevention Information |

WORK AUTHORIZATION RECORD

Work order: \_\_\_\_\_

Drawing / revision: \_\_\_\_\_

Checked by: \_\_\_\_\_

Date: \_\_\_\_\_

## Isolation and Access Register

| CONTROL POINT     | ENGINEER RECORD        |
|-------------------|------------------------|
| Incoming supply   | Isolated / proved      |
| Stored energy     | Discharged / proved    |
| Field connections | Identified / protected |
| ESD control       | Established / recorded |

## Pre-Work Documentation

| DOCUMENT              | ENGINEER RECORD      |
|-----------------------|----------------------|
| Connection photograph | Reference / file     |
| Configuration backup  | Reference / revision |
| Diagnostic baseline   | Reference / result   |

# Connection and Installation Sequence

## INSTALLATION PRINCIPLE

Match PW404-S1 to the installed CENTUM cabinet and record its supply position, mating connector and wiring before removal. Isolate the cabinet, preserve redundant-power status where fitted and verify power, node and controller diagnostics after controlled energization.

- 1

Inspect the cabinet connector, keying, fasteners and cooling path.
- 2

Restore the exact documented supply position and cabinet wiring.
- 3

Energize under control and review supply, node and controller diagnostics.
- 4

Verify stable process-control operation before release.

## Connection Record

| CONNECTION GROUP         | AS-FOUND / AS-LEFT RECORD | STATUS  |
|--------------------------|---------------------------|---------|
| Power / field connection | Reference / terminal      | Checked |
| Signal / interface       | Reference / connector     | Checked |
| Ground / shield          | Reference / point         | Checked |
| Accessory / carrier      | Reference / part          | Checked |

## MODEL-SPECIFIC RELEASE LIMIT

Confirm PW404-S1, PW404 base model, S1 execution, CENTUM cabinet and host assembly, installed redundancy, connectors, wiring, protective grounding, cooling, node configuration and controlled startup diagnostics before commissioning.

## Interface Acceptance Criteria

| ACCEPTANCE ITEM     | REQUIRED EVIDENCE                                                          |
|---------------------|----------------------------------------------------------------------------|
| Identity            | PW404-S1                                                                   |
| Host match          | Yokogawa CENTUM distributed control system                                 |
| Connection proof    | Restore the exact documented supply position and cabinet wiring.           |
| Configuration proof | Energize under control and review supply, node and controller diagnostics. |

# Commissioning and Acceptance Record

Record each controlled verification step before the equipment returns to automatic operation.

| NO. | ACCEPTANCE CHECK              | RESULT      | RECORD         |
|-----|-------------------------------|-------------|----------------|
| 1   | Article and host identity     | PASS / FAIL | Initial / date |
| 2   | Mechanical installation       | PASS / FAIL | Initial / date |
| 3   | Power and field wiring        | PASS / FAIL | Initial / date |
| 4   | Grounding and shielding       | PASS / FAIL | Initial / date |
| 5   | Configuration restoration     | PASS / FAIL | Initial / date |
| 6   | Signal or power-path response | PASS / FAIL | Initial / date |
| 7   | Diagnostics and alarms        | PASS / FAIL | Initial / date |
| 8   | Final functional release      | PASS / FAIL | Initial / date |

## Engineering Notes

| RECORD AREA             | ENGINEER ENTRY |
|-------------------------|----------------|
| As-found condition      |                |
| Corrective action       |                |
| As-left configuration   |                |
| Outstanding restriction |                |
| Release authorization   |                |

### CONTROLLED COMMISSIONING

Verify stable process-control operation before release.

## Diagnostics and Release Log

| EVENT                        | ENGINEERING RECORD   |
|------------------------------|----------------------|
| Initial energization         | Result / observation |
| Interface or signal response | Result / observation |
| Alarm and diagnostic review  | Result / observation |
| Functional release           | Name / date          |

# Maintenance Verification and Closeout

**CENTUM controller power support**

Supplies the documented controller hardware in an approved cabinet.

**Distributed I/O cabinet service**

Restores a matched supply position serving configured I/O nodes.

**Redundant power maintenance**

Supports one-at-a-time replacement where the installed system provides redundancy.

**CENTUM startup validation**

Provides the exact supply identity used during node and controller diagnostics.

## Related Engineering Pages

| MODEL           | ENGINEERING ROLE           | APTER POWER PAGE                          |
|-----------------|----------------------------|-------------------------------------------|
| EB401-50-S1     | ER bus interface module    | <a href="#">View EB401-50-S1 page</a>     |
| ALF111-S50-S1   | FOUNDATION Fieldbus module | <a href="#">View ALF111-S50-S1 page</a>   |
| ET5-B           | YS1000 terminal component  | <a href="#">View ET5-B page</a>           |
| A2EE1A-T        | system component           | <a href="#">View A2EE1A-T page</a>        |
| VF702           | interface module           | <a href="#">View VF702 page</a>           |
| SB311-S1        | SOE interface module       | <a href="#">View SB311-S1 page</a>        |
| ANB10D-427-CU2T | ESB node unit              | <a href="#">View ANB10D-427-CU2T page</a> |
| EC402-51        | ESB bus coupler module     | <a href="#">View EC402-51 page</a>        |

**MANUFACTURER SOURCE RECORD**

CENTUM Distributed Control System Product Pollution Prevention Information  
Yokogawa document R2-2017-1026, Revision 9, 1 December 2025

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