

PW401-S2

CENTUM Power Supply Module

INSTALLATION, INTERFACE AND VALIDATION WORKBOOK

Yokogawa PW401-S2 is a PW401 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.

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com



PW401-S2

Installation Readiness Gate

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

- 1

Confirm the complete PW401-S2 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	PW401-S2
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 PW401-S2 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 PW401-S2, PW401 base model, S2 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	PW401-S2
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
EC402-51	ESB bus coupler module	View EC402-51 page
CP451-10	S2 processor module	View CP451-10 page
PW482-50	power supply module	View PW482-50 page
EB401-50-S1	ER bus interface module	View EB401-50-S1 page
ALF111-S50-S1	FOUNDATION Fieldbus module	View ALF111-S50-S1 page
ET5-B	YS1000 terminal component	View ET5-B page
A2EE1A-T	system component	View A2EE1A-T page
VF702	interface module	View VF702 page

MANUFACTURER SOURCE RECORD

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

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com


PW401-S2