

W74C5X1

Installation and commissioning field guide

JOB SCOPE

Emerson Network Power W74C5X1 is the signal transfer board used in PS48400-3/2900 and PS48600-3/2900 DC power systems. It consolidates temperature sensing, RS-232 communication, power-off control, modem supply and eight configurable dry-contact circuits.

Safe-work boundary

- Record the complete Emerson Network Power W74C5X1 marking and power-system designation.
- Place the PS48400-3/2900 or PS48600-3/2900 cabinet in the approved maintenance state.
- Label the J10 and J11 temperature-sensor cables before disconnecting the board.
- Preserve the J13 RS-232 connection and any installed communication settings.

IDENTITY HOLD POINT

Confirm the complete W74C5X1 marking, power-system model, every J10-J30 connection and the dry-contact configuration before replacement.

Installed-hardware record

- Board function: Signal transfer interface
- Documented systems: PS48400-3/2900 and PS48600-3/2900
- Temperature sensor ports: J10 and J11
- Temperature sensor supply: 5 V

Pre-installation readiness

Confirm the installed hardware and recorded interfaces

Board function	Signal transfer interface	Manual power-off input	J18
Documented systems	PS48400-3/2900 and PS48600-3/2900	Automatic power-off input	J19
Temperature sensor ports	J10 and J11	Modem supply	48 V at J22
Temperature sensor supply	5 V	Dry-contact interfaces	Eight pairs at J23 through J30
Temperature range	-5 to 100 deg C	Dry-contact logic	Normally open or normally closed, configurable
Temperature precision	+/-2 deg C	Input fuse	F5AL250V
Serial interface	RS-232 at J13	Primary engineering control	Preserve connector identity and contact polarity

CONFIGURATION CONTROL

W74C5X1 is a signal transfer board rather than an Ovation I/O or generic power-supply module. Keep the PS48400-3/2900 or PS48600-3/2900 system association, use the specified F5AL250V input fuse, and validate each sensor, communication and dry-contact path after service.

Controlled installation sequence

A traceable path from identification to connection

STAGE 1

Record the complete Emerson Network Power W74C5X1 marking and power-system designation.

STAGE 2

Place the PS48400-3/2900 or PS48600-3/2900 cabinet in the approved maintenance state.

STAGE 3

Label the J10 and J11 temperature-sensor cables before disconnecting the board.

STAGE 4

Preserve the J13 RS-232 connection and any installed communication settings.

STAGE 5

Identify the separate J18 manual and J19 automatic power-off circuits.

STAGE 6

Check the J22 modem supply path and the F5AL250V input fuse before energization.

CONNECTION VERIFICATION

The board routes the manual power-off input at J18, the automatic power-off path at J19 and a 48 V modem supply at J22. Temperature-sensor cabling is supplied at 5 V and supports the published sensing range. Before replacement, document every plug and contact polarity, then restore the original normally open or normally closed dry-contact programming and confirm controller communication, temperature indication and alarm transfer.

Commissioning and acceptance

Verify each affected function before release

IDENTITY

Record the complete Emerson Network Power W74C5X1 marking and power-system designation.

INSTALLATION

Identify the separate J18 manual and J19 automatic power-off circuits.

CONFIGURATION

Check the J22 modem supply path and the F5AL250V input fuse before energization.

DIAGNOSTICS

Record the normally open or normally closed logic of every J23-J30 dry-contact pair.

FUNCTIONAL PROOF

Validate temperature, serial communication, power-off control and all eight alarm contacts before release.

Release record

- Record the final installed identity and companion hardware.
- Retain the restored configuration, diagnostic state and functional-test result.
- Release the affected circuit only after the approved acceptance plan is complete.

Handover and support

Final record, related products and direct contact

Manufacturer evidence used

- Emerson Network Power PS48400-3/2900 and PS48600-3/2900 Power Supply System User Manual, Version 1.3, December 20, 2005, BOM 31011100.
- Emerson Network Power signal-transfer-board interface table for W74C5X1.
- Emerson Network Power temperature-sensor, dry-contact and fuse specifications for the W74C5X1 assembly.

Verified related ApterPower product pages

Emerson KJ4001X1-BA2 VE3051C0 12P1562X012

Emerson KJ4001X1-BE1 12P0818X072

Emerson KJ4001X1-CC1 12P0733X042

Emerson KJ4001X1-NA1 12P3373X012

Emerson KJ4001X1-NB1 12P3368X012

Emerson KJ4005X1-BC1

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