

W74C5X1

DC Power System Signal Transfer Board

SIGNAL-TRANSFER ROLE

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.

Cabinet interface map



Key interface values

Temperature sensor supply	5 V
Temperature range	-5 to 100 deg C
Temperature precision	+/-2 deg C
Serial interface	RS-232 at J13

Engineering data

Exact-model values organized by function

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

System role and applications

Four supported operating contexts

DC POWER-SYSTEM ALARM TRANSFER

Routes eight configured cabinet alarm contacts between the installed power plant and remote monitoring circuits.

ENVIRONMENTAL TEMPERATURE MONITORING

Connects the documented temperature-sensor cables and supplies the 5 V sensing interface.

LOCAL SERIAL MAINTENANCE

Provides the J13 RS-232 path used by the approved monitoring and service arrangement.

POWER-OFF COORDINATION

Carries the distinct manual and automatic power-off control paths within the installed cabinet design.

Integration control

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.

Service checks

- Identify the separate J18 manual and J19 automatic power-off circuits.
- Check the J22 modem supply path and the F5AL250V input fuse before energization.
- Record the normally open or normally closed logic of every J23-J30 dry-contact pair.
- Validate temperature, serial communication, power-off control and all eight alarm contacts before release.

Engineering questions

Model-specific decisions for selection and service

WHAT DOES EMERSON NETWORK POWER W74C5X1 DO IN THE DC POWER SYSTEM?

Emerson Network Power W74C5X1 transfers temperature, serial communication, power-off control, modem-supply and dry-contact signals within the documented DC cabinet.

WHICH POWER SYSTEMS USE W74C5X1?

The original Emerson Network Power manual identifies W74C5X1 for the PS48400-3/2900 and PS48600-3/2900 power supply systems.

WHERE ARE THE TEMPERATURE SENSORS CONNECTED ON EMERSON NETWORK POWER W74C5X1?

The temperature-sensor cables connect to J10 and J11 on Emerson Network Power W74C5X1.

WHAT TEMPERATURE-INTERFACE VALUES ARE DOCUMENTED FOR W74C5X1?

W74C5X1 supplies the temperature-sensor cable at 5 V and supports a -5 to 100 deg C range with +/-2 deg C precision.

WHICH CONNECTOR PROVIDES THE SERIAL INTERFACE ON EMERSON NETWORK POWER W74C5X1?

The RS-232 serial interface on Emerson Network Power W74C5X1 is provided at J13.

HOW ARE THE POWER-OFF INPUTS SEPARATED ON W74C5X1?

W74C5X1 uses J18 for manual power-off control and J19 for automatic power-off control.

HOW MANY DRY-CONTACT PAIRS ARE AVAILABLE ON EMERSON NETWORK POWER W74C5X1?

Emerson Network Power W74C5X1 provides eight dry-contact pairs at J23 through J30, and each pair can be configured as normally open or normally closed.

WHICH FUSE MUST BE INSTALLED ON W74C5X1?

The Emerson Network Power manual specifies an F5AL250V input fuse for W74C5X1.

Evidence, related products and contact

Traceable source record and direct Apter Power support

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 KJ3002X1-BG2 12P1731X062

[View exact product page](#)

Emerson KJ3003X1-EA1

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Emerson KJ3101X1-BA1 12P1865X062

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Emerson KJ3101X1-BB1 12P1866X062

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Emerson KJ3209X1-BA1 12P3905X012 VE4002S2T1B1

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Emerson KJ3224X1-EA1 12P4367X022

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