

The SDPN-USPR is a spare parts kit which is used to replace the following obsolete JTL products as a spare part:

**EC
ECCN
ECRB
ECAS
ECAS-C
ECED
ECLS**

The SDPN-USPR comprises of the following parts:

1 x SDPN controller
1 x CAB66-05 RJ45 to 5 pin display converter cable
1 x NJ12 junction box
1 x CAB60-05 Network cable

Some rewiring is necessary when replacing the obsolete part with the SDPN affecting the network connections or the input and output connections. For full details see below.

The SDPN is a universal controller which provides defrost functionality of all the former products, as such it requires to be set up correctly to achieve the functionality desired. The attached user guide gives full details of programming information to set up the controller. Your attention is drawn in particular to item 107 which selects the appropriate defrost initiation method, and item 144 which selects the defrost termination method.

Note the SDPN is only suitable for liquid line solenoid valve control with a mechanical (thermostatic) expansion valve.

SDPN OUTPUT CONVERSION

FUNCTION	SDPN (see note 1)	EC ECCN ECRB ECAS ECAS-C ECED ECLS
CABINET LIGHTS	1 NO 1 LN	
LIQUID SOLENOID	3 NO 3 LN	CONA - 4 CONA - 3
DEFROST	2 NO 2 LN	CONA - 2 CONA - 1

NOTE 1: Rewire as shown, ensure wiring to LN is rewired to LN which requires crossover. LN must be connected to the line voltage and NO/NC to the load to ensure correct EMC operation.

Applicable Documentation

Connections Diagram: Doc No. 02681
Installation Information: Doc No. 02693
Item Numbers: Doc No. 02677
Schematic Diagram: Doc No. 02680
User Guide: Doc No. 02679

SDPN INPUT CONVERSION

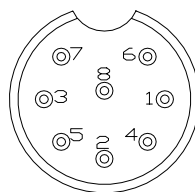
TEMPERATURES

Rewiring is necessary, sensor connections need to be reconnected directly to the SDPN

SENSOR	SDPN	ECxx DIN	ECxx WITH CONVERTER BOARD (See drawing 02299)
AIR ON	CON4 - 1 CON4 - 2	PIN 1 PIN 2	1
AIR OFF	CON4 - 3 CON4 - 4	PIN 4 PIN 2	2
EVAPORATOR	CON4 - 5 CON4 - 6	PIN 5 PIN 2	3
SUCTION LINE	CON4 - 7 CON4 - 8	PIN 3 PIN 2	4

EC Temperature Connection DIN

View from plug wiring side



INPUTS

FUNCTION	SDPN	ECAS-C (see note 2)
DEFROST INPUT	L1 (230 v) C (neutral)	1 2

NOTE 2: The input on the ECAS-C is low voltage from a voltage free contact. This needs rewiring to give a 230 V input and neutral to activate the defrost.

SDPN Jnet Communications Conversion

The SDPN and the EC controllers are fitted with different sockets for Jnet Network connection. To connect the legacy network to the SDPN the NJ12 junction box & CAB60-05 cable supplied in the kit are necessary. The NJ12 converts the DIN connection on the legacy network cable to the telephone style RJ8 network connector on the CAB60, which is used to connect to the SDPN.

SDPN Display Connections

The display connection on the SDPN uses an RJ45 connector. To convert the 5 pin display to this connection, use the CAB66-05 cable supplied with the SDPN.

Controller Setup

To ensure compatibility when replacing the original part with an SDPN, action a factory default setting procedure (Item 9) before setting in the new data.