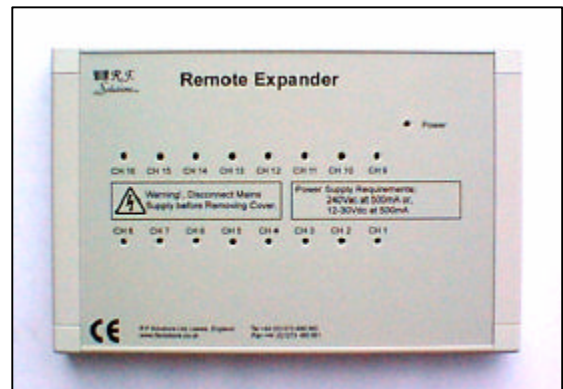


FEATURES

- 15 CHANNEL EXPANDER
- IP65 RATED ENCLOSURE
- EASY INSTALLATION VIA SCREW TERMINALS
- CONNECTS DIRECTLY TO '105' SERIES DECODER
- 230Vac OR 12-30Vdc SUPPLY
- MOMENTARY OUTPUTS WITH LED INDICATION
- 15 +1 RELAY CONTACTS 2A @ 12Vdc
- REQUIRES NO RADIO LICENCE
- SUPPLIED WITH CABLE GLANDS



DESCRIPTION

This expander unit connects to the '105' series remote decoder to provide 15 momentary relay channel outputs mapped directly from the '105' digital outputs.

An additional relay (channel 16) is also provided, this operates when any of the relay channels 1 to 15 are operated (Wired OR configuration). Operation of each relay is indicated by an LED.

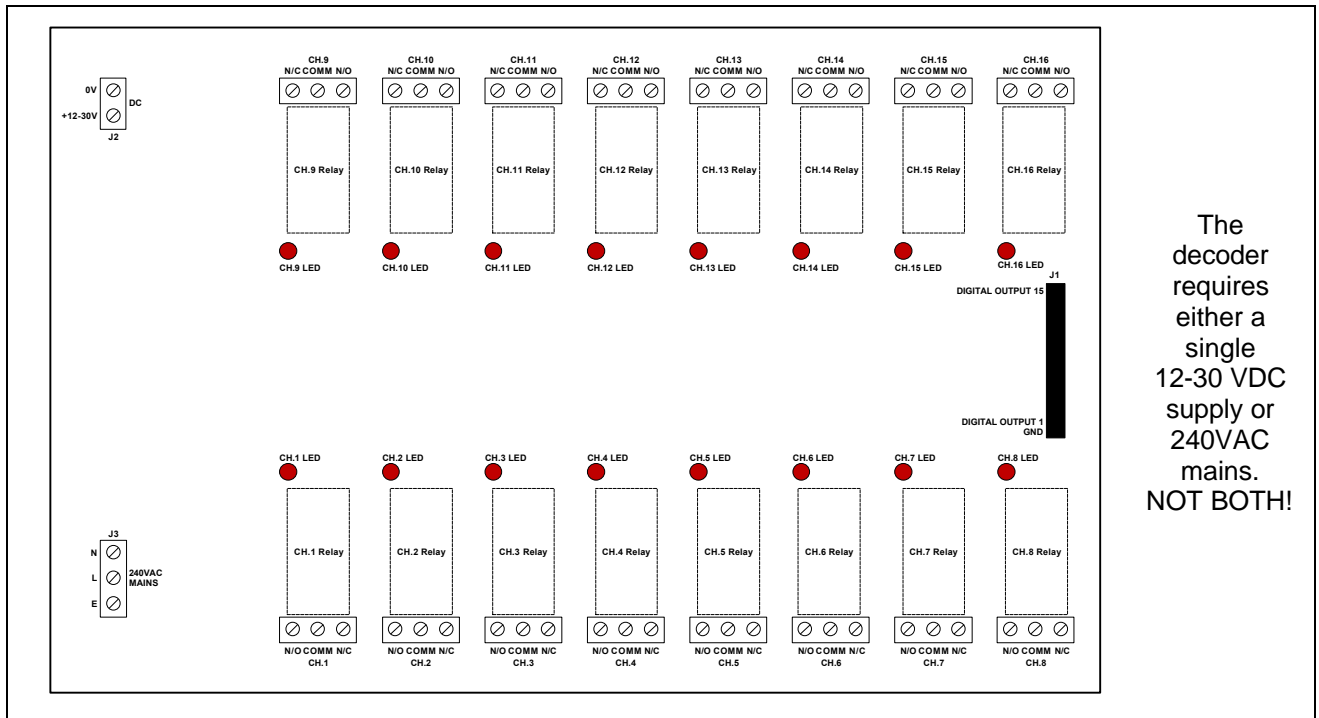
Connection between the Expander and '105' remote decoder is easy with the linking cable assembly and connectors supplied. Enclosure glands are also supplied.

The unit is easy to install, all connections are via screw terminals.

The system may be supplied as a PCB or in an IP65 rated enclosure and requires either 230Vac or 12-30Vdc supply.

Custom solutions are available, for further information please contact our sales department.

Expander Board Connections



The decoder requires either a single 12-30 VDC supply or 240VAC mains. NOT BOTH!

WARNING!

The unit is designed to be a fixed installation, which may be connected to a mains supply. Before removing the cover ensure that the mains input supply is removed. Any operation of the product that involves removal of the front cover should only be carried out by a competent person or qualified electrician.

Connecting the '105' Decoder to the '115' Expander

The system is supplied with cable glands for the interconnecting cable assembly to link the enclosure of '105' to '115'. In order to connect the two units follow these instructions

1. Site the position of the two enclosures.
2. Remove the lid of the '105' decoder by removing the four plastic plugs in each corner and unscrewing the four fixing screws
3. Remove the '105' decoder from its enclosure, this is held in by 8 retaining screws around the outside of the PCB.
4. Fit PCB mounting screw terminal connector J5 to the '105' decoder (if not already fitted)
5. Pass the already fitted flying lead cable from the '115' through the '105' enclosure gland.
6. Identify the labelled wires on the '115' flying lead (these are labelled 1 to 15 and correspond to the digital output on '105') and connect to J5 on the '105' decoder. **Note:** The wire labelled GND must also be connected to the GND screw terminal (J5) on the '105'.
7. Once the flying lead is connected to the '105' decoder, refit the PCB into its enclosure, tighten the cable gland and replace the lid.

RELAY OUTPUTS

The system is supplied with relay(s) type BT47W/6.

All relays operate as momentary output

There are 16 Relays which provide the following connections

Connector J1 Pin No	Wire Colour	Relay No	Description
GND		NA	Digital Ground Connection
1		Ch 1	Output Channel 1
2		Ch 2	Output Channel 2
3		Ch 3	Output Channel 3
4		Ch 4	Output Channel 4
5		Ch 5	Output Channel 5
6		Ch 6	Output Channel 6
7		Ch 7	Output Channel 7
8		Ch 8	Output Channel 8
9		Ch 9	Output Channel 9
10		Ch 10	Output Channel 10
11		Ch 11	Output Channel 11
12		Ch 12	Output Channel 12
13		Ch 13	Output Channel 13
14		Ch 14	Output Channel 14
15		Ch 15	Output Channel 15
		Ch 16	Logic OR output of Relay Ch 1 to Ch 15 (Operates If any output Ch 1- 15 is operating)

TECHNICAL SPECIFICATIONS

Storage Temperature: -10 to +70° Celsius.
Operating Temperature: 0 to +55° Celsius.

ELECTRICAL CHARACTERISTICS	MIN	TYPICAL	MAX	DIMENSION
Supply Voltage	11.0	16.0	30.0	V
Supply Current :				
Quiescent		5		mA
All Relays operating		800		mA
Relay Rating			50	Vdc @0.5A
Relay Rating			1	A @50Vdc
Relay Rating			2	A @12Vdc

Enclosure Dimensions: 190 x 120 x 60 mm

Part Numbering

Part No	Description
EX-11516D	Supplied as PCB, 16 relays, 12-30Vdc PSU
EX-11516A	Supplied as PCB, 16 relays, 230Vac PSU
EX-115C16D	Supplied in Enclosure, 16 relay, 12-30Vdc PSU
EX-115C16A	Supplied in Enclosure, 16 relays, 230Vac PSU

For more information or general enquiries, please contact

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