- Panel Mount 8 & 16 Point Remote Displays
- Expandable up to 128 points
- IP42 Front Panel Protection:
- All Round Compliance:
  - IE61508 SIL1 Compliant
  - RoHS Compliant

Features

- Backlit LED Display
- Lamp Test facilities
- Optional Serial Port - Modbus/PLC compatible
- User printed legends on inkjet/laser

- Certified to IEC61508 SIL1 Safety Standard
- RoHS Compliance to 2011/65/EU (RoHS2)
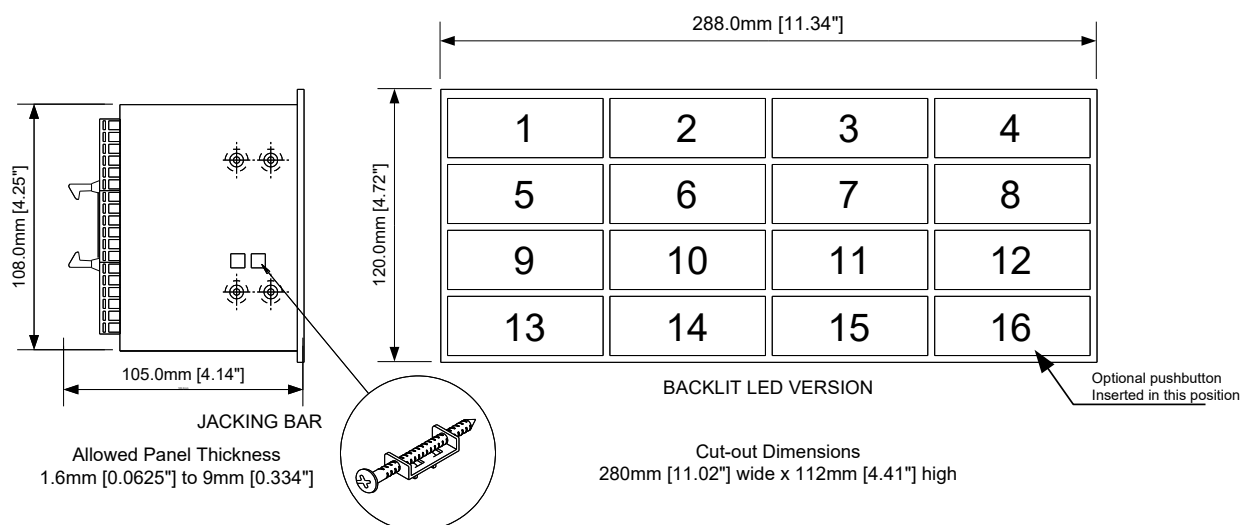- IP42 Compliant Front Panel

Overview

The **Omni8C** and **Omni16C** Backlit LED Remote Displays provide 8/16 points of display in a stand-alone panel-mount package without electronics. These displays provide panel indication where no integral alarm handling logic is required. Ideal for use with the Omni16C RLU (Model 1479B) or directly connect to your PLC. Common positive or Common negative switching options are available. Integral lamp test feature enhances system reliability. These displays provide an ideal low cost alternative to individual panel indicators.

The Omni8C/16C Remote Displays have been assessed as suitable for use in SIL1 applications as specified in IEC61508.

Mechanical Configuration of Omni16C Remote Display

288.0mm [11.34"]

120.0mm [4.72"]

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

BACKLIT LED VERSION

Optional pushbutton Inserted in this position

108.0mm [4.25"]

105.0mm [4.14"]

JACKING BAR

Allowed Panel Thickness
1.6mm [0.0625"] to 9mm [0.334"]

Cut-out Dimensions
280mm [11.02"] wide x 112mm [4.41"] high

Omni16C Remote Displays Mechanical Detail including Window Layout

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Mechanical Configuration of Omni8C Remote Display

JACKING BAR

108.0mm [4.25"]

105.0mm [4.14"]

144.0mm [5.67"]

120.0mm [4.72"]

1	2
3	4
5	6
7	8

Optional pushbutton
Inserted in this position

Allowed Panel Thickness
1.6mm [0.0625"] to 9mm [0.334"]

Cut-out Dimensions
136mm [5.35"] wide x 112mm [4.41"] high
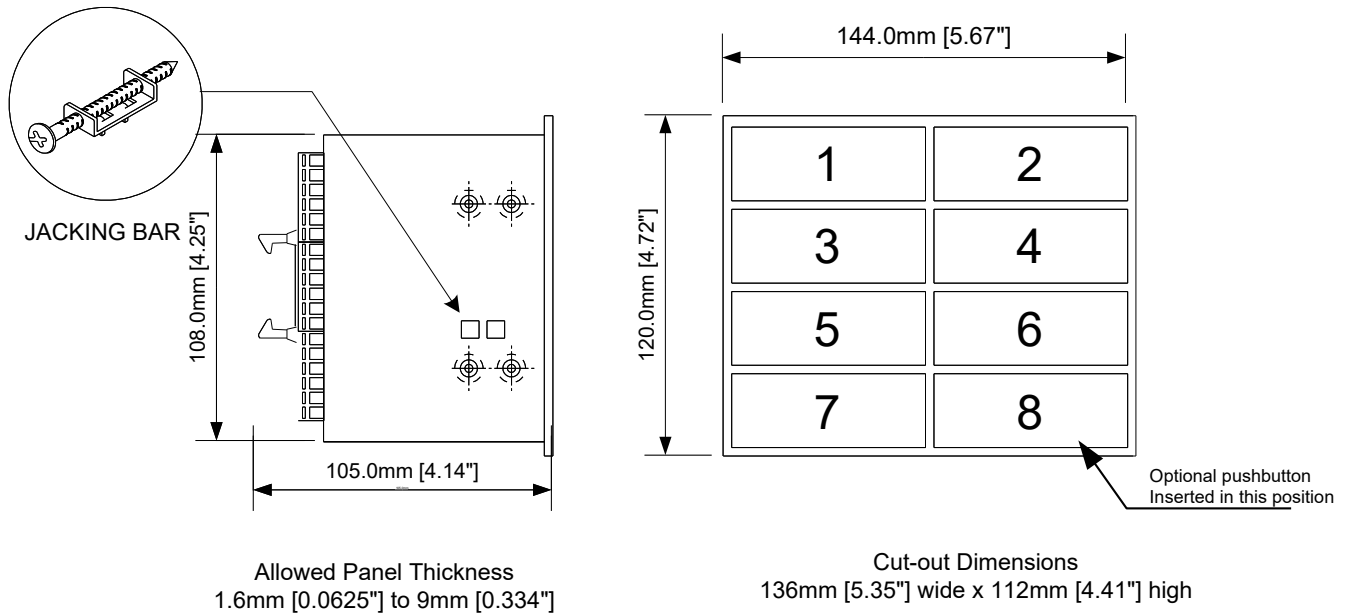
Omni8C Remote Displays Mechanical Detail including Window Layout

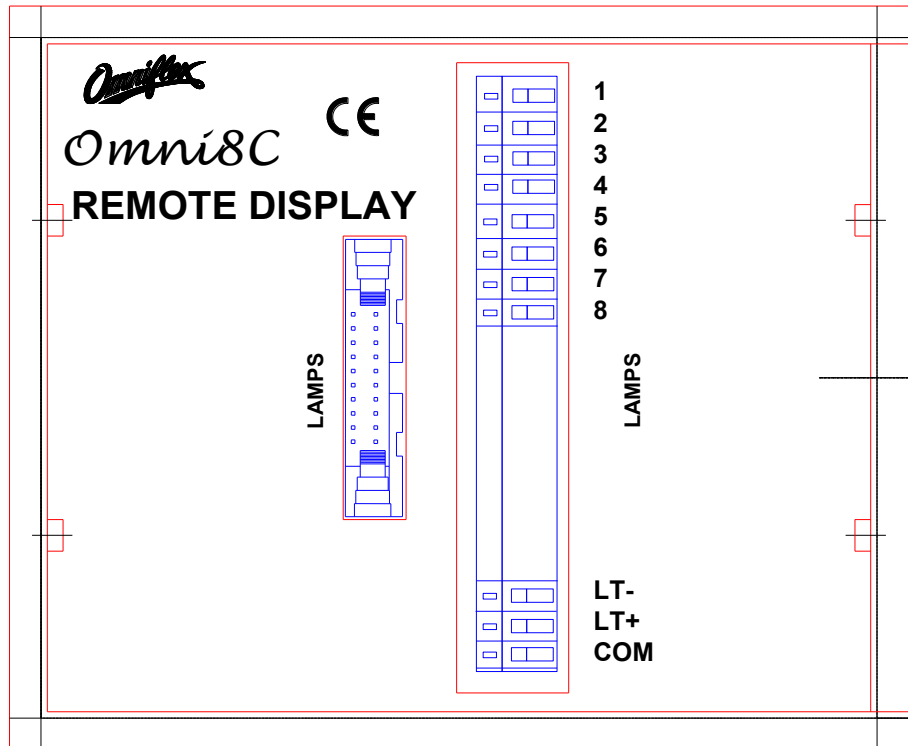## Rear View of Omni16C Remote Display

CE

Omni16C
REMOTE DISPLAY

LAMPS

LAMPS

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
LT-
LT+
COM

Omni16C Remote Display Rear View

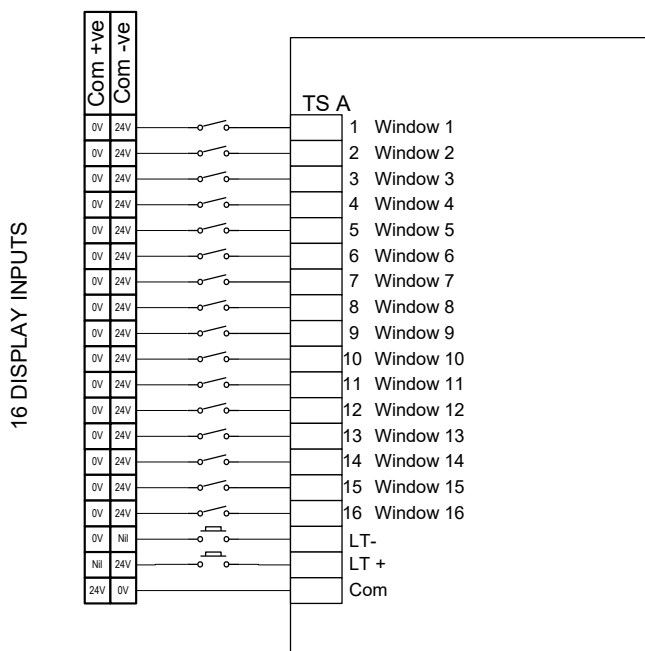www.omniflex.com/products/C1486A

Omniflex
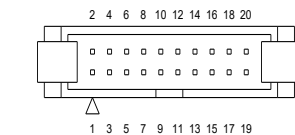®REMOTE MONITORING SPECIALISTS

Rear View of Omni 8C Remote Display

Omni8C Remote Display Rear View

Electrical Connection Diagram of Omni16C Remote Display

Ribbon Header Pin Layout

Pin No.	Description	
	Com+ve	Com-ve
1	Not Used	Not Used
2	Not Used	Not Used
3	24 Volts	COM 0V
4	24 Volts	COM 0V
5	Window 16	Window 16
6	Window 15	Window 15
7	Window 14	Window 14
8	Window 13	Window 13
9	Window 12	Window 12
10	Window 11	Window 11
11	Window 10	Window 10
12	Window 9	Window 9
13	Window 8	Window 8
14	Window 7	Window 7
15	Window 6	Window 6
16	Window 5	Window 5
17	Window 4	Window 4
18	Window 3	Window 3
19	Window 2	Window 2
20	Window 1	Window 1

Spring Terminal Connections

Ribbon Header Connections

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Electrical Connection Diagram of Omni8C Remote Display
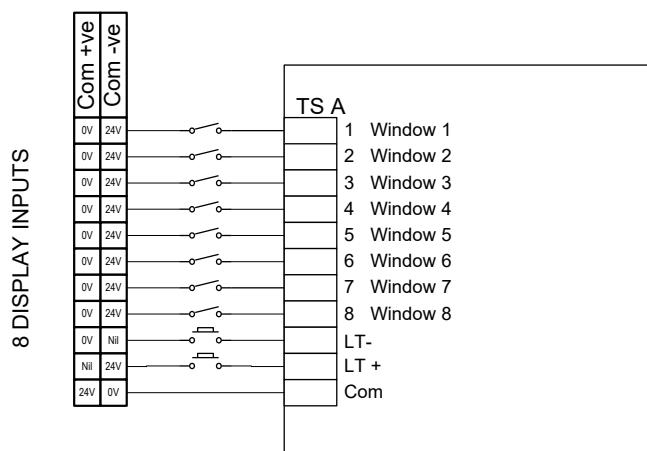
Spring Terminal Connections

Ribbon Header Pin Layout

Ribbon Header Connections

Pin No.	Description	
	Com+ve	Com-ve
1	Not Used	Not Used
2	Not Used	Not Used
3	24 Volts	COM 0V
4	24 Volts	COM 0V
5	Not Used	Not Used
6	Not Used	Not Used
7	Not Used	Not Used
8	Not Used	Not Used
9	Not Used	Not Used
10	Not Used	Not Used
11	Not Used	Not Used
12	Not Used	Not Used
13	Window 8	Window 8
14	Window 7	Window 7
15	Window 6	Window 6
16	Window 5	Window 5
17	Window 4	Window 4
18	Window 3	Window 3
19	Window 2	Window 2
20	Window 1	Window 1

Specifications

Alarm Window Display Options

Model	C1486A	C1496A
Type	Backlit LED	Backlit LED
Window Size	24mm x 64mm	24mm x 64mm
Legend Area	21mm x 60mm	21mm x 60mm
Legend Type	Laser/Inkjet print on clear film (software provided).	Laser/Inkjet print on clear film (software provided).
Common Voltage	0V or 24V (depends how LED boards are fitted)	0V or 24V (depends how LED boards are fitted)
Number of windows	16	8

Power Requirements

Model	C1486A	C1496A
No of windows	16	8
Display Type	Backlit LED	
Voltage	24Vdc ± 15%	
Current/window	63mA	38mA
Total Current	1A	**0.3A**

Lamp Test Facility

Quantity and Type	Two lamp test input terminals provided – one (marked LT-) used for +24V common connected displays, the other (marked LT+) for 0V common connected displays.
Current Rating	These inputs are required to supply the entire display load of the display (see table above).

Power Requirements

Ribbon Connector	All remote displays are equipped with a 20 way insulation displacement ribbon cable connector compatible with the C1479 RLU, and many other OMNIFLEX products.
Terminals (Lever Clamp)	All displays are equipped with a single terminal per display window, and a common terminal for the supply return connection.
Terminal Wire size	1.5mm2 (17SWG/15.5SWG) max.

Lamp Test Facility

Quantity and Type	Two lamp test input terminals provided – one (marked LT-) used for +24V common connected displays, the other (marked LT+) for 0V common connected displays.
Current Rating	These inputs are required to supply the entire display load of the display (see table above).
Isolation	1000Vac from contact to other circuits

Temperature Range

Operating Temperature Humidity	0°C – 60 °C (+32°F – 140°F) Up to 90% RH, non condensing is recommended
Storage Temperature Humidity	-10°C – 70 °C (+14°F – 158°F Less than 40% RH is recommended

Weight

Unpacked/Packed	1.0kg approx. / 1.4kg approximately

Compliance to Standards

Ingress Protection (I.P.)	IP42 (front only)
Safety	EN 60950:1995
Emissions	EN 55011 and EN50081-2:1994 Group I, Class A
Immunity – ESD	IEC 61000-4-2:1995, level 3
Immunity – RF Fields	IEC 61000-4-3:1995, level 3
Immunity – Fast Transients	IEC 61000-4-4:1995 2 kV – All Lines
Supply Variations	IEC 61000-4-7:1991, 24 V dc +15% -10%
Vibration	IEC60068-2-6: 1995 10-150Hz. 1g

Ordering Information

ORDER CODE	DESCRIPTION
C1686A	16 way LED Backlit Display (Order LED boards separately)
C1696A	8 way LED Backlit Display (Order LED boards separately)

Note: The Models C1487A/97A Sidebar LED Remote Displays have been discontinued. The C1486A/96A are a drop in replacement with an improved display"

Accessories
To be ordered separately. (Will be fitted prior to shipment.)

Backlit LED

C1150	Red Backlit LED Lamp Board
C1151	Yellow Backlit LED Lamp Board
C1152	Green Backlit LED Lamp Board
C1153	Blue Backlit LED Lamp Board
C1154	Orange Backlit LED Lamp Board
C1155	White Backlit LED Lamp Board

Incandescent (as Spares only; Lamp version of Annunciator no longer available)

C1160	Lamp and Holder 8 Window Pack
C1161	Incandescent Lamp replacement 10 pack
C1162	Incandescent Lamp replacements 100 pack

C1163	Assorted Colour Filter Kit
C1164A	Plastic Windows and Diffuser Kit (8 pack)

Sidebar LEDs (as Spares only; Sidebar LED version of Annunciator no longer available)

C1448-1	Black engravable window
C1448-2	Red engravable window
C1448-3	Amber engravable window
C1448-4	Yellow engravable window
C1448-5	Green engravable window
C1448-6	Blue engravable window
C1448-7	White engravable window
C1446	Engraving for Sidebar LED Windows

Mounting Hardware

C1431-01	Mounting Kit 2 High Stack
C1431-02	Mounting Kit 3 High Stack
C1431-03	Mounting Kit 4 High Stack

Interface Accessories

C1168B	Omniset Programming cable for Prog. Port
C6320A-2	Ribbon Header to terminals converter
C6308A-2-0	Ribbon to 16 Relays Form C 5A

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