DATASHEET

FEATURES

- **8 or 16 Window versions.**

- **Choice of Backlit LED/Sidebar LED Display**

- **Powered via remote logic unit 24Vdc**

- **Common Positive or Common Negative options**

- **Connection via terminals or 20Way ribbon header**

- **Small, compact, panel mounted and easy to use**

- **User printed legends on inkjet/laser**

- **Lamp Test facilities**

Omni8C & Omni16C Backlit Remote Display

The Omni8C and Omni16C Remote Displays provide 8/16 points of display in a stand-alone panel-mount package without electronics. Available in dual Backlit LED or Sidebar LED indicator windows. 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.

SPECIFICATIONS

Alarm Window Display Options

Model	C1486A C1496A	C1487A C1497A	C1488A C1498A
Type	Backlit LED	Sidebar LED	Sidebar LED
Window Size	24mm x 64mm	21mm x 51mm	21mm x 51mm
Legend Area	21mm x 60mm	20mm x 40mm	20mm x 40mm
Legend Type	Laser/Inkjet print on clear film (software provided).	Engraved white plastic window as standard*	Engraved white plastic window as standard*
Common Voltage	0V or 24V (depends how LED boards are fitted)	0V	24V

- Other colours available; see "Accessories".

Power Requirements

Model	C1486A	C1487A C1488A	C1496A	C1497A C1498A
No of windows	16	16	8	8
Display Type	Backlit LED	Sidebar LED	Backlit LED	Sidebar LED
Voltage	24Vdc +/- 15%			
Current/window	63mA	38mA	63mA	38mA
Total Current	1A	0.6A	0.5A	0.3A

* Note: Total inrush current on incandescent Lamps can be > 8A

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).

Connections

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	1.5mm^2 (17SWG/15.5SWG) max.

Temperature Range

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

Weight

Unpacked	1.0kg approx.
Packed	1.4kg approx.

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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
C1486A	16 way LED Backlit Display (Order LED boards separately)
C1487A	16 way Sidebar LED Display 0Vdc com (White windows as standard; other colours available)
C1488A	16 way Sidebar LED Display +24Vdc com (White windows as standard; other colours available)
C1496A	8 way LED Backlit Display (Order LED boards separately)
C1497A	8 way Sidebar LED Display 0Vdc com (White windows as standard; other colours available)
C1498A	8 way Sidebar LED Display +24Vdc com (White windows as standard; other colours available)

| ACCESSORIES	To be ordered separately Will be fitted before delivery.
Backlit LED	
C1150A	Red Backlit LED Lamp Board
C1151A	Yellow Backlit LED Lamp Board
C1152A	Green Backlit LED Lamp Board
C1153A	Blue Backlit LED Lamp Board
C1154A	Orange Backlit LED Lamp Board
C1155A	White Backlit LED Lamp Board
Incandescent (as Spares only; Incandescent Remote Displays no longer available)	
C1161A	Incandescent. Lamp replacement 10 pack
C1162A	Incandescent. Lamp replacements 100 pack
C1163A	Assorted Incandescent Colour Filter Kit
Sidebar LED	
C1448-1	Black Sidebar LED engreveble window
C1448-2	Red Sidebar LED engravable window
C1448-3	Amber Sidebar LED engravable window
C1448-4	Yellow Sidebar LED engravable window
C1448-5	Green Sidebar engravable LED window
C1448-6	Blue Sidebar LED engravable window
C1446	Engraving for Sidebar LED Windows
Mounting hardware	To be ordered separately
C1431-01	Mounting Kit 2 High Stack
C1431-02	Mounting Kit 3 High Stack
C1431-03	Mounting Kit 4 High Stack

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REAR VIEW – Omni8C and 16C Remote Displays
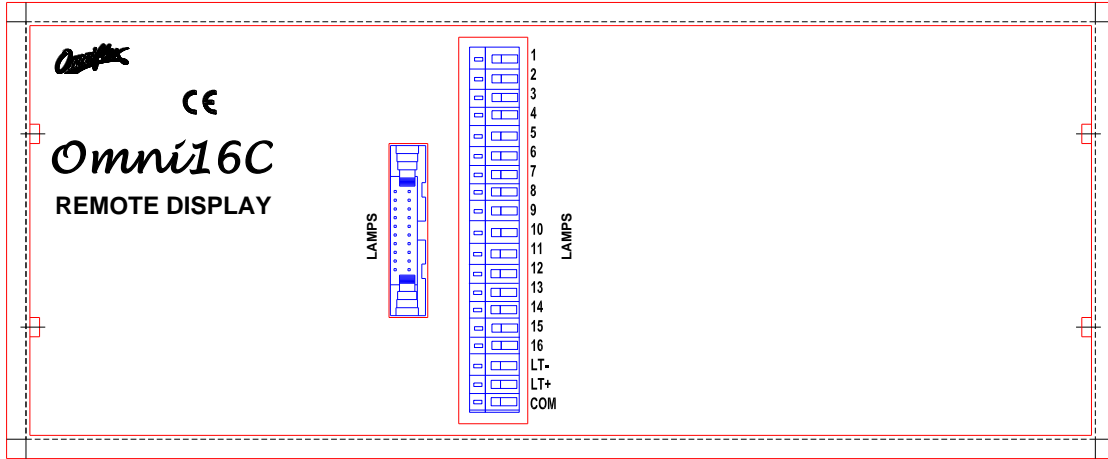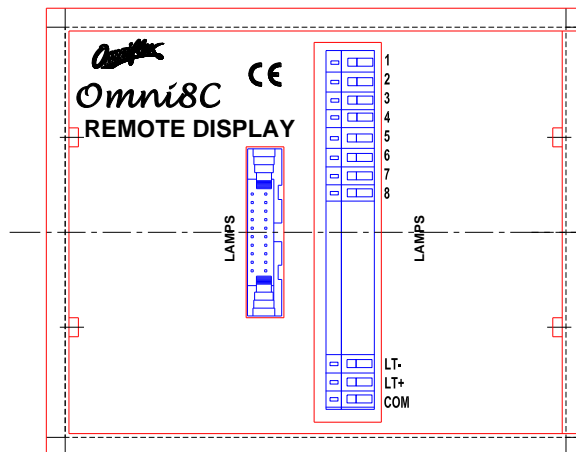
Omni16C Remote Displays Rear View

Omni8C Remote Displays Rear View

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ELECTRICAL CONNECTION – Omni16C Remote Displays
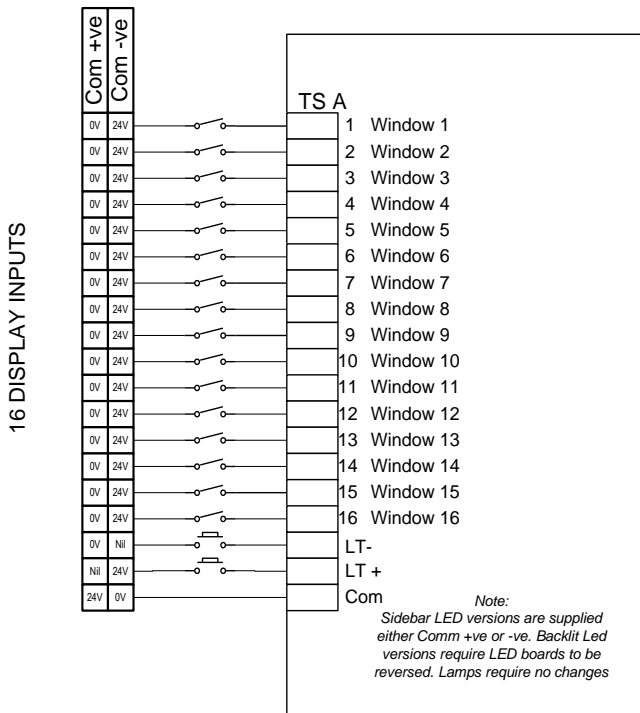
Screw Terminal Connections
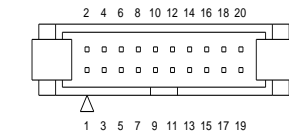
Note:
Sidebar LED versions are supplied either Comm +ve or -ve. Backlit Led versions require LED boards to be reversed. Lamps require no changes

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	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

ELECTRICAL CONNECTION – Omni8 Remote Displays
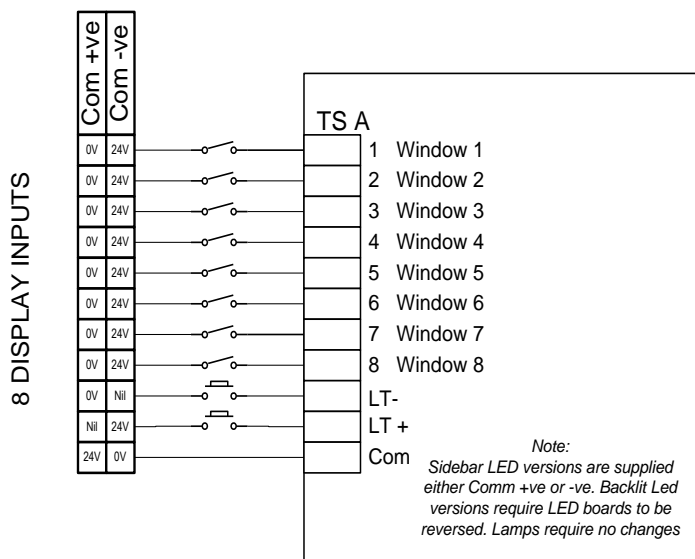
Screw Terminal Connections
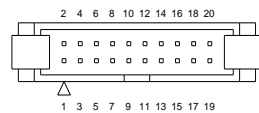
Note:
Sidebar LED versions are supplied either Comm +ve or -ve. Backlit Led versions require LED boards to be reversed. Lamps require no changes

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

MECHANICAL CONFIGURATION

SIDEBAR LED VERSION

INCADESCENT LAMP OR BACKLIT LED VERSION

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

Omni16 Remote Displays Mechanical Detail including Window Layout

SIDEBAR LED VERSION

INCADESCENT LAMP OR BACKLIT LED VERSION

JACKING BAR

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