



Omni-8/16C Remote Displays

Models: C1486A,C1487A,C1488A,C1489A, C1496A,C1497A, C1498A, C1499A

DATASHEET

FEATURES

- 16 or 8 Window versions.
- Choice of Lamp/Sidebar LED/Backlit 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 incandescent lamps, 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 | C1486 A C1496 A | C1487 A C1497 A | C1488 A C1498 A | C1489 A C1499 A |
|----------------|---|-------------------------|-------------------------|---|
| Type | Backlit LED | Sidebar LED | Sidebar LED | Incand. Lamp |
| Window Size | 24mm x 64mm | 21mm x 51mm | 21mm x 51mm | 24mm x 64mm |
| Legend Area | 21mm x 60mm | 20mm x 40mm | 20mm x 40mm | 21mm x 60mm |
| Legend Type | Laser/Inkjet print on clear film (software provided). | Engraved plastic window | Engraved plastic window | Laser/Inkjet print on clear film (software provided). |
| Common Voltage | 0V or 24V (depends how LED boards are fitted) | 0V | 24V | 0V or 24V |

Power Requirements

| Model | C1486A | C1487A C1488A | C1489A | C1496A | C1497A C1498A | C1499A |
|----------------|---------------|------------------|--------------|-------------|------------------|--------------|
| No of windows | 16 | 16 | 16 | 8 | 8 | 8 |
| Display Type | Backlit LED | Sidebar LED | Incand. Lamp | Backlit LED | Sidebar LED | Incand. Lamp |
| Voltage | 24Vdc +/- 15% | | | | | |
| Current/window | 63mA | 38mA | 120mA | 63mA | 38mA | 120mA |
| Total Current | 1A | 0.6A | 2A* | 0.5A | 0.3A | 1A* |

* 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 | 0°C – 60 °C (+32°F – 140°F) |
| Storage Temperature | -10°C – 70 °C (+14°F – 158°F) |

Weight

| | |
|----------|---------------|
| Unpacked | 1.0kg approx. |
| Packed | 1.4kg approx. |



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Compliance to Standards

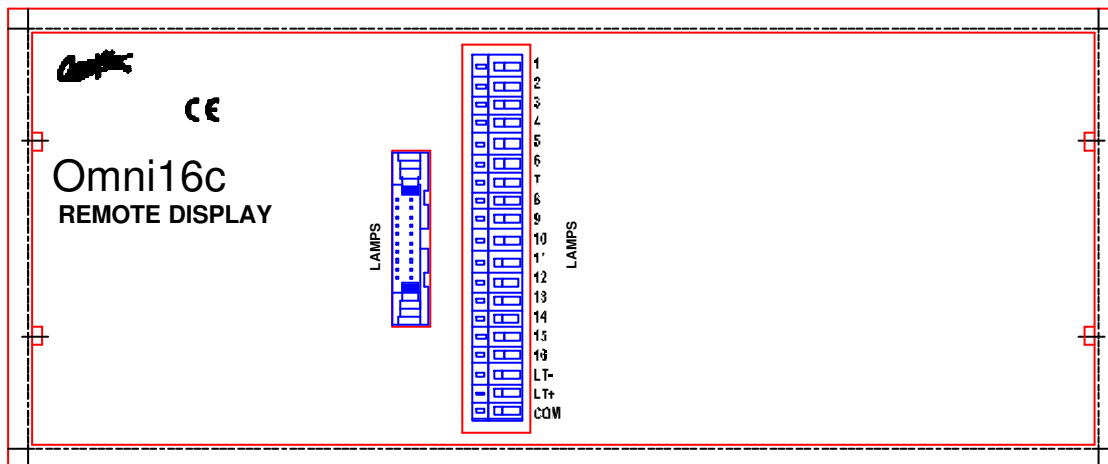
| | |
|----------------------------|---|
| Safety | EN 60950:1995 |
| Emissions | EN 55011 and EN50081-2:1994 Group I, Class A |
| Immunity – ESD | IEC 61000-4-2:1995, level 3 |
| Immunity – RF Fields | IEC 61000-4-3:1995, level 3 |
| Immunity – Fast Transients | IEC 61000-4-4:1995 2 kV – All Lines |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

Ordering Information

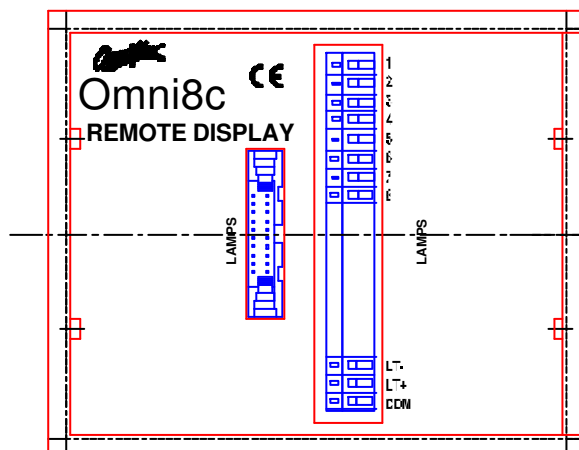
| ORDER CODE | DESCRIPTION |
|------------|--|
| C1486A | 16 way LED Backlit Display (Order LED boards separately) |
| C1487A | 16 way Sidebar LED Display 0Vdc com |
| C1488A | 16 way Sidebar LED Display +24Vdc com |
| C1489A | 16 way Incandescent Lamp Display |

| | |
|--------------------|--|
| C1496A | 8 way LED Backlit Display (Order LED boards separately) |
| C1497A | 8 way Sidebar LED Display 0Vdc com |
| C1498A | 8 way Sidebar LED Display +24Vdc com |
| C1499A | 8 way Incandescent Lamp Display |
| <u>Accessories</u> | <u>To be ordered separately</u> Will be fitted before delivery. |
| 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 |
| C1161A | Incand. Lamp replacement 10 pack |
| C1162A | Incand. Lamp replacements 100 pack |
| C1163A | Assorted Colour Filter Kit |

REAR VIEW – Omni8C and 16C Remote Displays



Omni16c Remote Displays Rear View



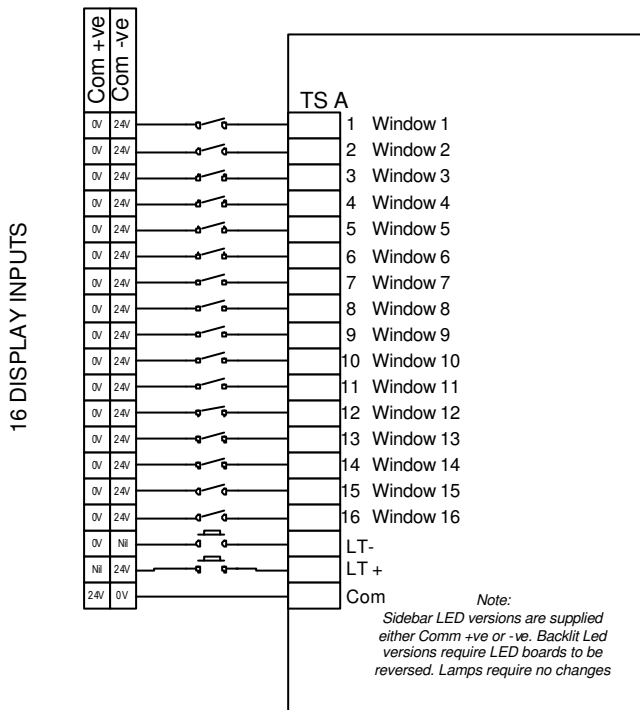
Omni8c Remote Displays Rear View



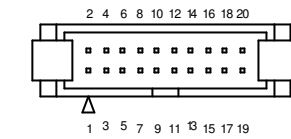
Omni-8/16C Remote Displays

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ELECTRICAL CONNECTION – Omni16C Remote Displays



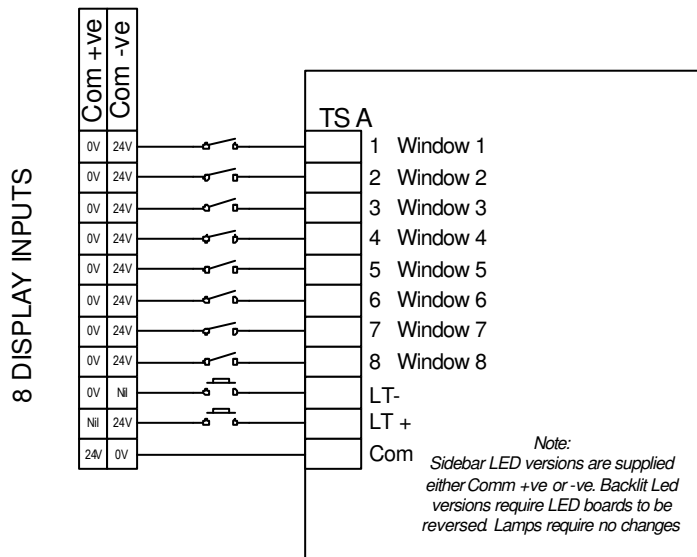
Screw Terminal Connections



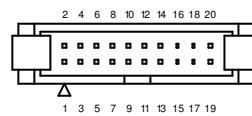
Ribbon Header Pin Layout

| 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 |

Ribbon Header Connections



Screw Terminal Connections



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 | 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 |

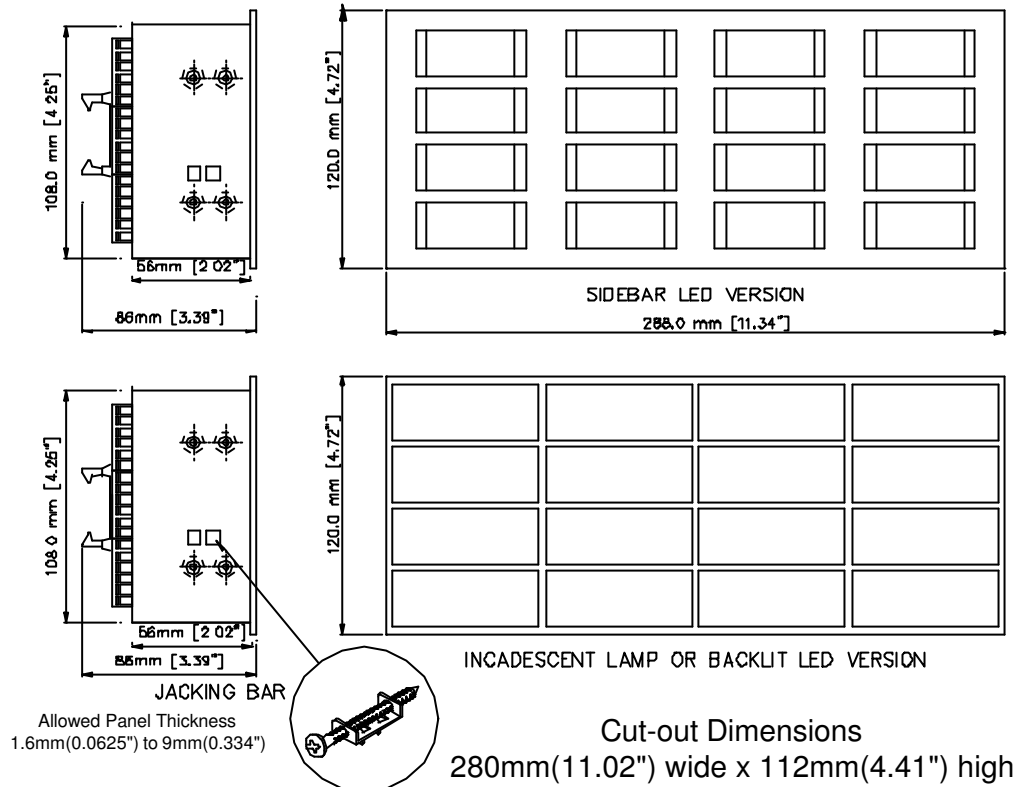
Ribbon Header Connections



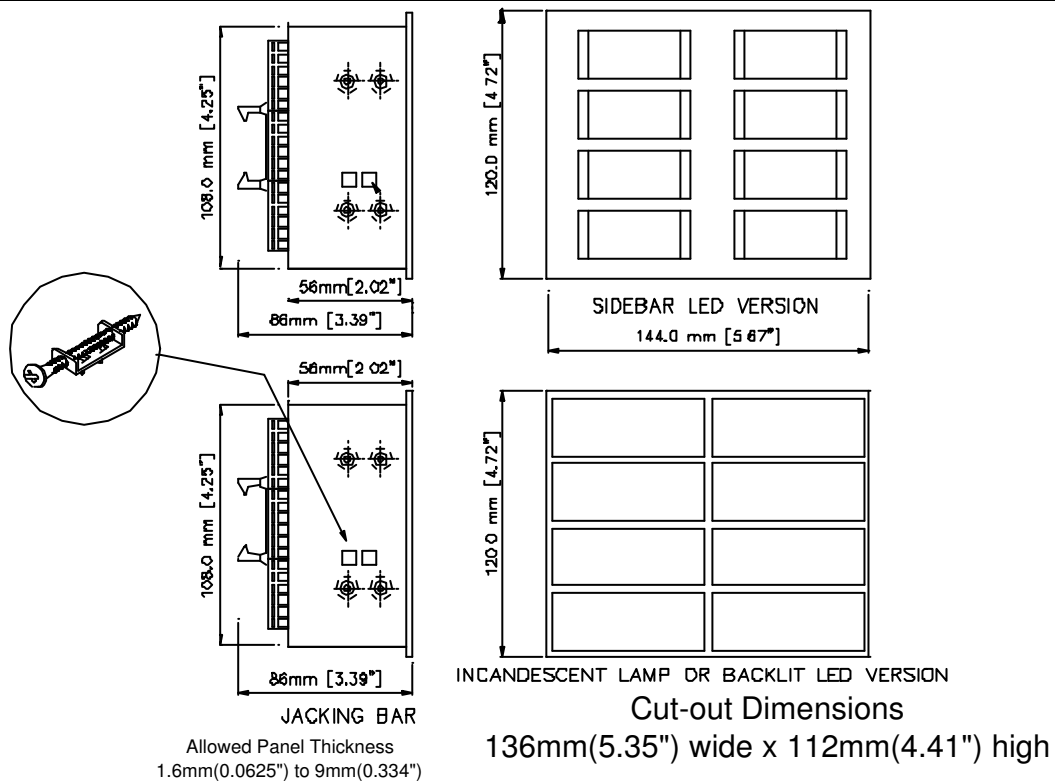
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MECHANICAL CONFIGURATION



Omni16 Remote Displays Mechanical Detail



Omni8c Remote Displays Mechanical Detail