

## OIT4165



**CLASS I  
DIVISION 2**

**NEMA4X**

### VFD Text Display with Customizable Keys



- 2 line by 20 character VFD display
- Membrane keypad with legendable inserts
- User-definable keys
- Serial RS232/RS485 ports
- Multiple PLC registers per screen
- Chain screens together
- Floating point
- Linear scaling
- 500 configurable screens
- Recipes and menus
- NEMA 4X, CE, UL certified
- Class I, Division 2 rating
- Extended operating temperature (-10 to 65°C)
- Programmed with OITware-200 software

The OIT4165 has an alphanumeric vacuum fluorescent display and a membrane-style keypad with custom slide-in legend. Each key is programmable, allowing you to define a unique keypad to match your specific application. The legendable insert feature means you don't have to pay extra for custom overlays to achieve a custom look.

A wide range of communications drivers are available: Allen-Bradley, Modicon, GE Fanuc, Keyence,

Control Microsystems, Bristol Babcock, and more. Over 100 brands of PLCs and motion controllers are supported.



OITware-200 configuration software includes recipes, menus, alarms, and the ability to create over 500 screens.

Designed for harsh industrial environments, the OIT4165 carries a Class I, Division 2 rating and operates

under a wide temperature range.

The OIT4165 is a powerful and durable operator interface.

**Every Machine  
Needs the  
Human Touch**



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# OIT4165 Specifications

## Hardware

|                 |   |
|-----------------|---|
| Display         | 2 line by 20 character VFD display<br>Viewing angle – approximately 90 degree |
| Key Type        | Membrane-style keypad   |
| Function Key    | 24 user-definable screen-dependent keys                                       |
| Slide-in Legend | Customizable slide-in key legend  |

## Mechanical

|                    |   |
|--------------------|---|
| Enclosure          | Aluminum                                    |
| Dimensions (WxHxD) | 6 x 4 x 1.77 inches [152.4 x 101.2 x 45 mm] |
| Weight             | 0.99 lbs [0.45 kg]                          |
| Mounting           | Panel                                       |
| Power Requirements | 12 to 30 VDC, 170 mA maximum                |

## Environmental

|                       |                                 |
|-----------------------|---------------------------------|
| Operating Temperature | 14 ~ 149°F (-10 ~ 65°C)         |
| Storage Temperature   | -22 ~ 176°F (-30 ~ 80°C)        |
| Relative Humidity     | 5% ~ 95% (non-condensing)       |
| Ratings               | NEMA4X, IP65                    |
| Certifications        | CE, cULus (Class I, Division 2) |

## Enhanced Features

|                                       |   |
|---------------------------------------|---|
| Recipe Screens                        | Allow the operator to download or upload preset values into PLC registers.  |
| Memory Storage for Motion Controllers | Stores data internally using the recipe screen feature. Data can be uploaded from the controller and stored in the OIT's non-volatile flash memory.   |
| Multiple Language Support             | Allows you to "split" the 500 screens into 2, 5, or 10 separate groups or languages.  |
| Choose Your Own Keys                  | <ul style="list-style-type: none"> <li><b>Global Function Keys</b> – Up to 24 global function keys. Each key can display one of 500 user-definable screens or simulate a momentary or push-on/push-off mechanical switch.</li> <li><b>Screen-Dependent Function Keys</b> – With 8 keys available, you have the equivalent of 4000 function keys.</li> </ul> |

Specifications subject to change without notice.

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