

## OIT3175



**CLASS I  
DIVISION 2**

**NEMA4X**



### *Text Display with Customizable Keys*

- 4 line by 20 character LCD 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 OIT3175 has an alphanumeric display and a membrane-style keypad. 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, and 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 OIT3175 carries a Class I, Division 2 rating and operates

under a wide temperature range.

The OIT3175 is a powerful and durable operator interface.

**Every Machine  
Needs the  
Human Touch**



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# OIT3175 Specifications

## Hardware

|                 |   |
|-----------------|---|
| Display         | 4 line by 20 character backlit LCD display<br>Viewing Angle – approximately 90 degree |
| Key Type        | Membrane-style keypad   |
| Function Key    | 16 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.

## Screens

|                 |   |
|-----------------|---|
| Total #         | 500 screens   |
| Message Screens | <ul style="list-style-type: none"> <li>• Beep on display</li> <li>• One line of 128 characters of scrolling text</li> <li>• Display for a preset length of time from 1 to 255 sec.</li> <li>• Chain to other message screens</li> <li>• Up to 25 register monitors</li> </ul>   |
| Recipe Screens  | <ul style="list-style-type: none"> <li>• Beep on display</li> <li>• One step download/upload with a function key</li> <li>• Up to 20 preset values (operator adjustable)</li> <li>• Display for a preset length of time from 1 to 255 sec.</li> <li>• One line of 128 characters of scrolling text</li> <li>• Up to 25 register monitors</li> </ul> |
| Alarm Screens   | <ul style="list-style-type: none"> <li>• 4 priority levels</li> <li>• 9 audible alert types</li> <li>• One line of 128 characters of scrolling text</li> <li>• Up to 25 register monitors</li> </ul>  |
| Menu Screens    | <ul style="list-style-type: none"> <li>• Branch off to 9 message, recipe or menu screens</li> <li>• Chain to other menu screens</li> <li>• Display for a preset length of time from 1 to 255 sec.</li> <li>• One line of 128 characters of scrolling text</li> <li>• Up to 25 register monitors</li> </ul>  |
| Help Screens    | <ul style="list-style-type: none"> <li>• Display from any message, recipe, or menu screens</li> </ul>   |

## Mechanical

|          |   |
|----------|---|
| Features | <ul style="list-style-type: none"> <li>• Adjustable decimal location and field width</li> <li>• Fully programmable linear scaling on decimal, signed and long formats</li> <li>• High/low limits</li> <li>• Increment/decrement value</li> <li>• Left/right justification</li> <li>• Optional comma insertion, hide data and leading zero</li> <li>• Read only or read/write</li> </ul> |
| Formats  | <ul style="list-style-type: none"> <li>• Decimal</li> <li>• Signed</li> <li>• Long</li> <li>• 4-digit or 8-digit BCD</li> <li>• Binary --- 1/0 coil, on/off coil, bank 8, or bank 16</li> <li>• ASCII string (allows display of ON/OFF or other text strings in place of 1/0 values)</li> </ul>   |

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