



OMNIR
BY FINNA SENSORS

OPERATOR DISPLAY MANUAL

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This guide applies to the following versions:

Hardware: DIS-11, DIS-21

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OVERVIEW

The OMNIR operator display is an optional accessory designed to display live data to operators on the plant floor. The display does not allow users to make configuration changes to the system, however they are able to change to any available product stored in the controller. The OMNIR system is designed to support up to 4 displays communicating to the controller via an Ethernet connection.

The display cannot be used to make configuration changes to the system, it is only for monitoring the process

This guide contains information about how to mount, install, and setup the OMNIR display.

Features

- Low power consumption: 24 VDC @250mA
- Standard Network interface 10/100Base-T
- 7" capacitive color touchscreen
- Several mounting options available, including standard VESA mounting
- Aluminum and Stainless-Steel models available

Hardware Components

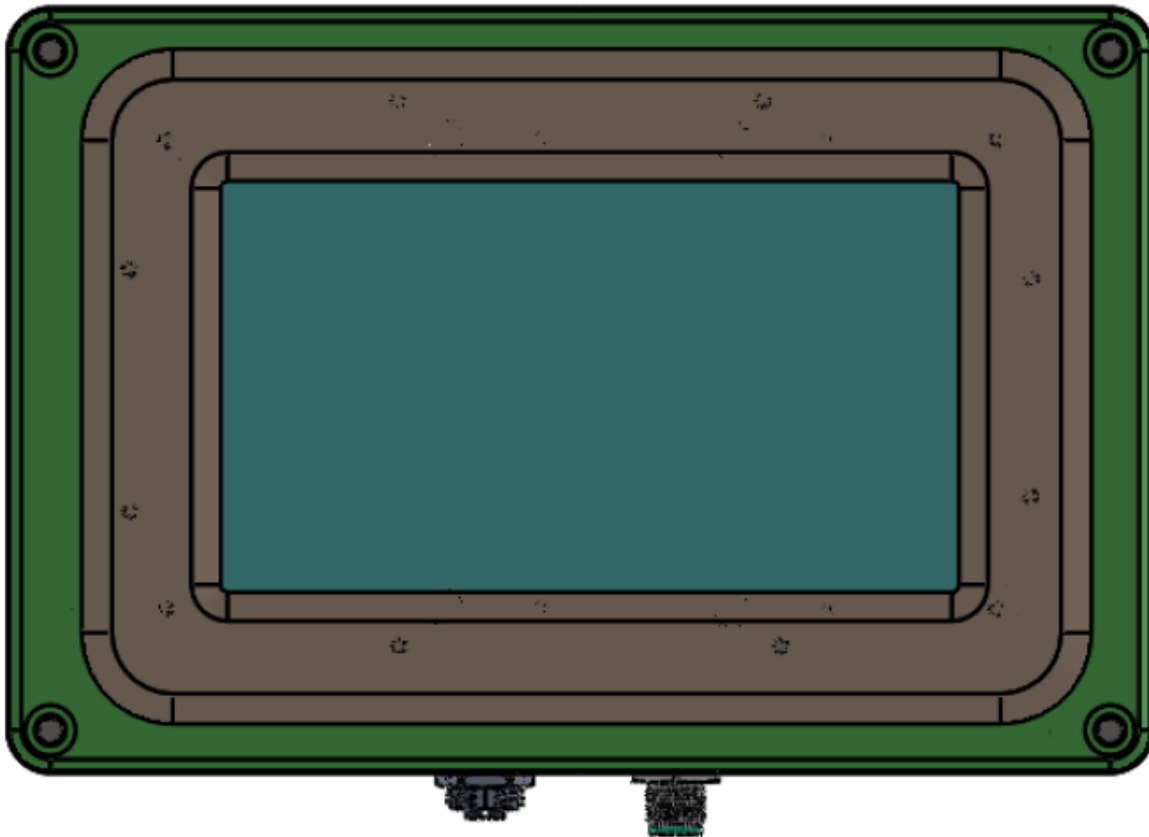
This section describes the primary components in the OMNIR controller.

Display

The high-resolution 7" TFT touchscreen is mounted to the front of the enclosure.

Cleaning the display with harsh chemicals or abrasives may scratch and/or damage the display

Figure 1 - Display



Mounting Plate

The mounting plate is secured to the back of the display and accommodates securing the display using a standard 75mm x 75mm or 100mm x 100mm VESA pattern.

M12 Bulkhead Connectors

There are two connectors on the bottom of the enclosure. One for power and a second for Ethernet connection. The connectors are keyed to ensure the wrong cable cannot be plugged into the wrong port.

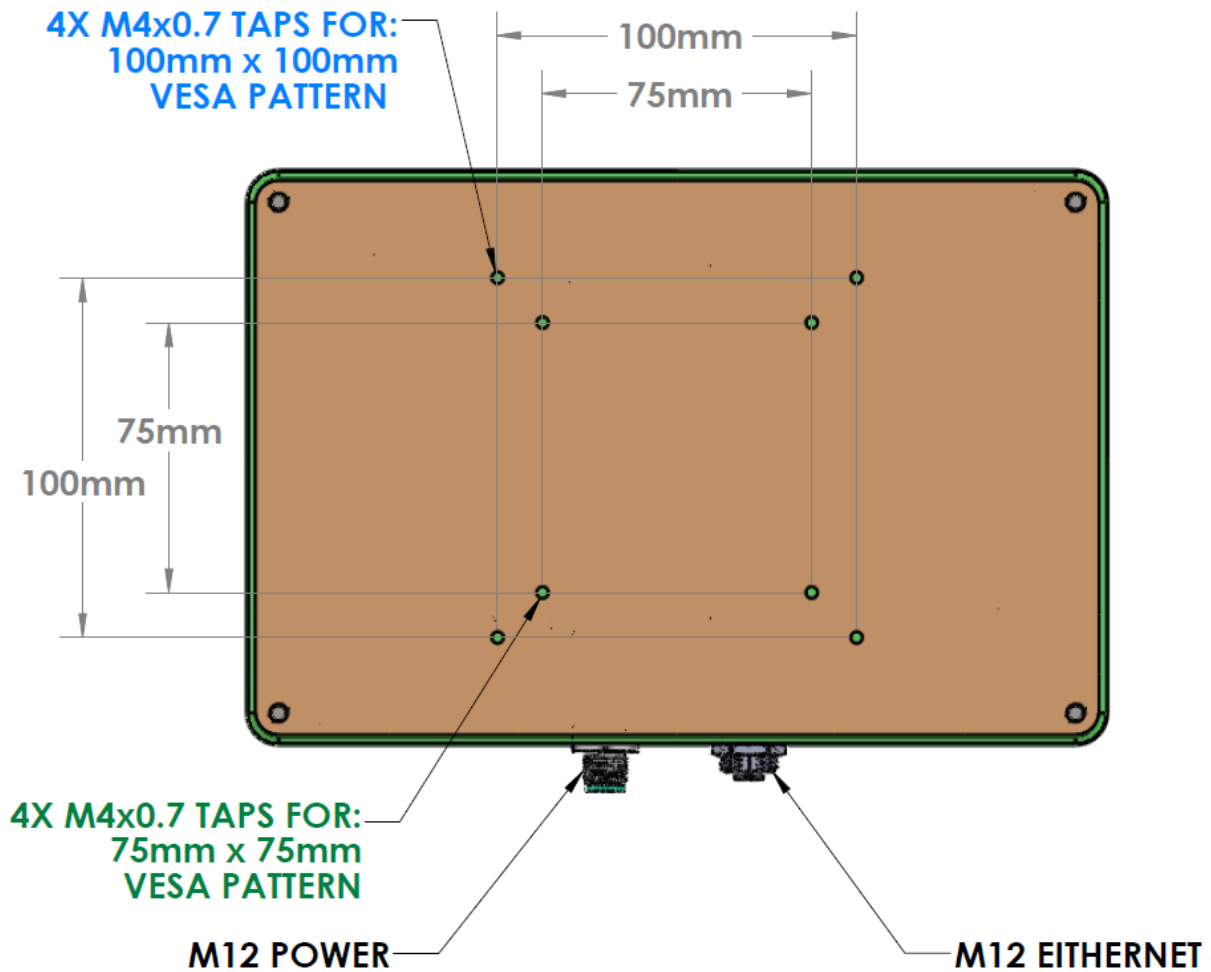
Mounting

The unit should be mounted in an area that is accessible and easily visible to operators, but does not exceed the environmental specifications (see

Specifications for more information). The recommended solution is to use a standard VESA mount in order to easily position the monitor as desired.

Mount display in an area accessible and visible to users

Figure 2 - Mounting Dimensions



Electrical Connections

Power Source

Typically input power is supplied to the M12 bulkhead from the controller, however an external source can be used if necessary. The 4-pin male power port on the bottom of the display and should be wired using the following pin configuration:

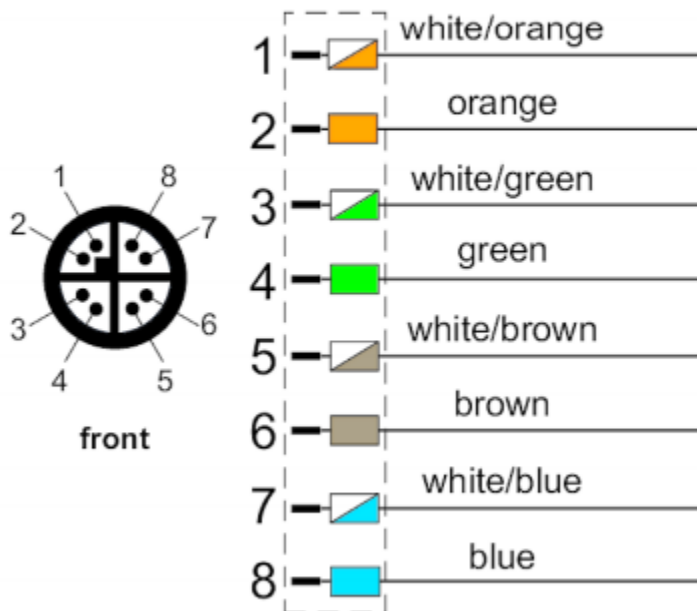
Pin	Description
1	NC
2	NC
3	+24 VDC
4	Ground

Ethernet

The Ethernet connection uses an industrial M12 plug that accepts a standard CAT5E or CAT6 cable with a diameter from 5.0 to 9.7mm in diameter. The cable termination is:


Figure 3 - M12 Ethernet Wiring

M12 plug



Setup Network IP

After connecting the power and Ethernet cables to the display, the display needs to be assigned an IP address and connected to a controller.

Press the  on the bottom to set the IP address and Subnet mask of the display. Enter the IP address of the controller. Once both fields are entered, cycle power to the unit.

If the display's IP address is changed, the unit MUST be re-booted to apply the change

After setting the controller IP, the data will automatically be displayed.

Specifications

Feature	
Power	24 VDC, 6 Watt max.
Temperature	-20 to +70 C
Humidity	5-90% non-condensing
Weight	7 lbs. (3.2 kg)

Figure 4 – Physical Dimensions

