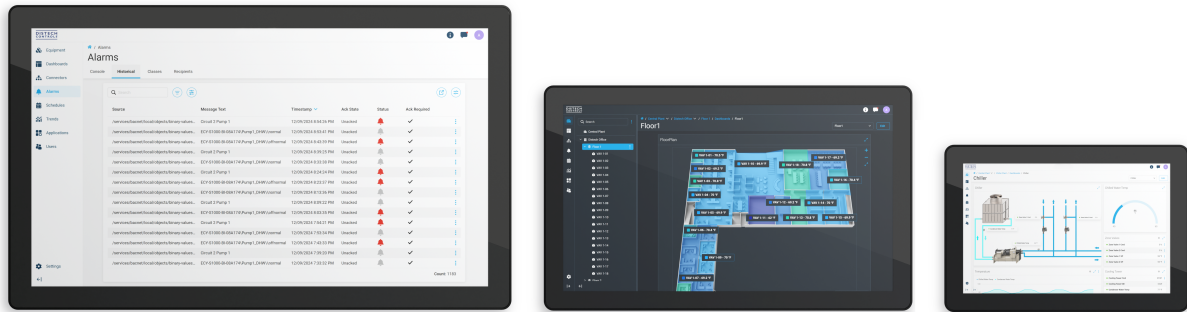


Eclipse Display



Overview

The Eclipse Display is an IP-based capacitive multi-touch color display. It is an ideal user interface for a wide range of building systems and applications and includes the Eclipse Facilities suite.

The Eclipse Display is suitable for different applications such as mechanical rooms, HMI (human-machine interface), equipment monitor, facility manager workstation, and lobby (digital signage). It provides an on-premise interface to monitor and interact with an installed network of Eclipse and EC-Net devices or any other system that serves up modern graphical views over IP.

What's Included

Each Eclipse Display package includes:

- ☐ Your desired IP-based capacitive touchscreen color display
- ☐ 8 panel mounting brackets
- ☐ 8 custom Phillips screws

In-wall mounting brackets sold separately.

General Installation Requirements

For proper installation and subsequent operation of this product, pay special attention to the following recommendations:

- ☐ Upon unpacking the product, inspect the contents of the carton for shipping damages. **Do not install damaged products.**
- ☐ The product's spec sheet specifies the power consumption (amount of heat generated), the operating temperature range, and other environmental conditions the product is designed to operate under.
- ☐ Ensure proper ventilation of the product.
- ☐ Avoid areas where corroding, deteriorating, or explosive vapors, fumes or gases may be present.
- ☐ Do not drop the product or subject it to physical shock.
- ☐ If the product is used and/or installed in a manner not specified by Distech Controls, the functionality and the protection provided by the product may be impaired.



Any type of modification to any Distech Controls product will void the product's warranty.



Take reasonable precautions to prevent electrostatic discharges to the product when installing, servicing, or operating it. Discharge any accumulated static electricity by touching a grounded object with your hand before handling the product.

General Wiring Recommendations



Risk of Electric Shock: Turn off power before any kind of servicing to avoid electric shock.

- All wiring must comply with electrical wiring diagrams, as well as national and local electrical codes.
- To connect the wiring to a device, use the terminal connectors. Use a small flat screwdriver to tighten the terminal connector screws once the wires have been inserted (strip length: 0.25" (6 mm), maximum tightening torque 0,4 Nm (3.45 in-lb)).
- Comply with all network and power supply guidelines outlined in the [Network Guide](#).
- When connecting one wire to a controller's terminal block clamping cage (pole), the wire must be between 18 and 14 gauge (0.82 and 2.1mm^2 cross-sectional area). When connecting two wires to a controller's terminal block clamping cage, both wires must be the same thickness, must be between 18 and 16 gauge (0.82 and 1.3mm^2 cross-sectional area), and must be the same type (solid or stranded). Twist the wires together and insert then into the controller's terminal block clamping cage. For any other wiring combination (mixed wire thickness, mixed solid and stranded conductors, more than three wires, wire thickness is out of range), twist the wires together and use a wire nut and a pig tail to connect to the controller's terminal block connector as show below.

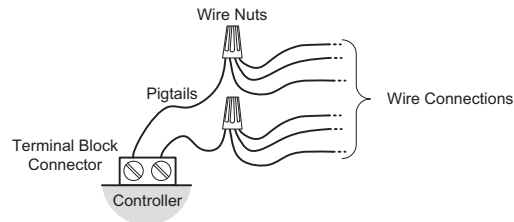


Figure 1: Using a Wire Nut and Pigtail to Wire the Controller

Connection Identification

The following items apply to all Eclipse Display models:

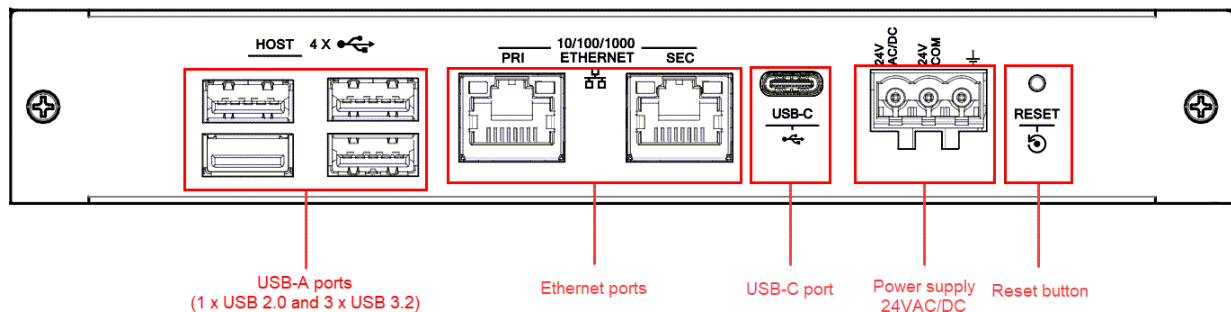


Figure 2: Connection identification (ECY-Display-10 shown here)

Device Dimensions

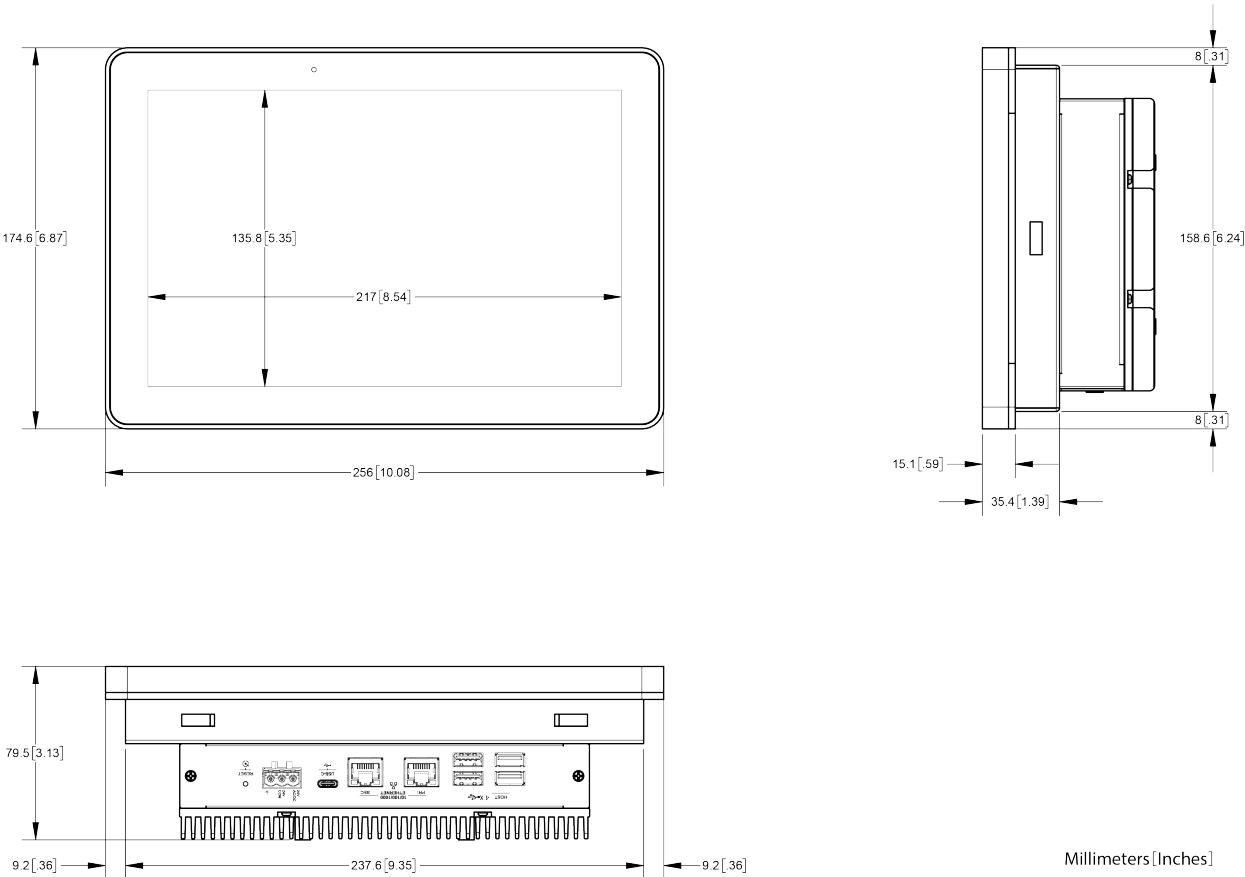


Figure 3: ECY-Display-10 dimensions

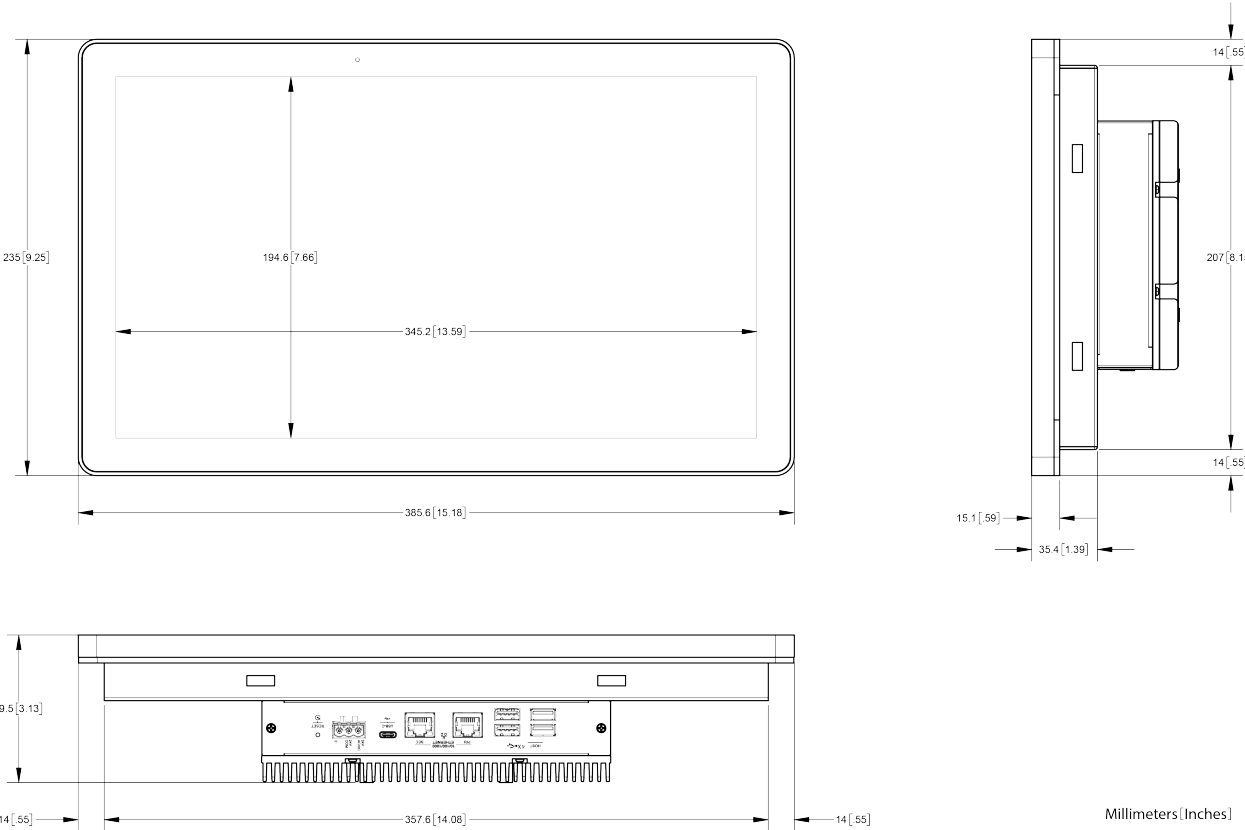


Figure 4: ECY-Display-15 dimensions

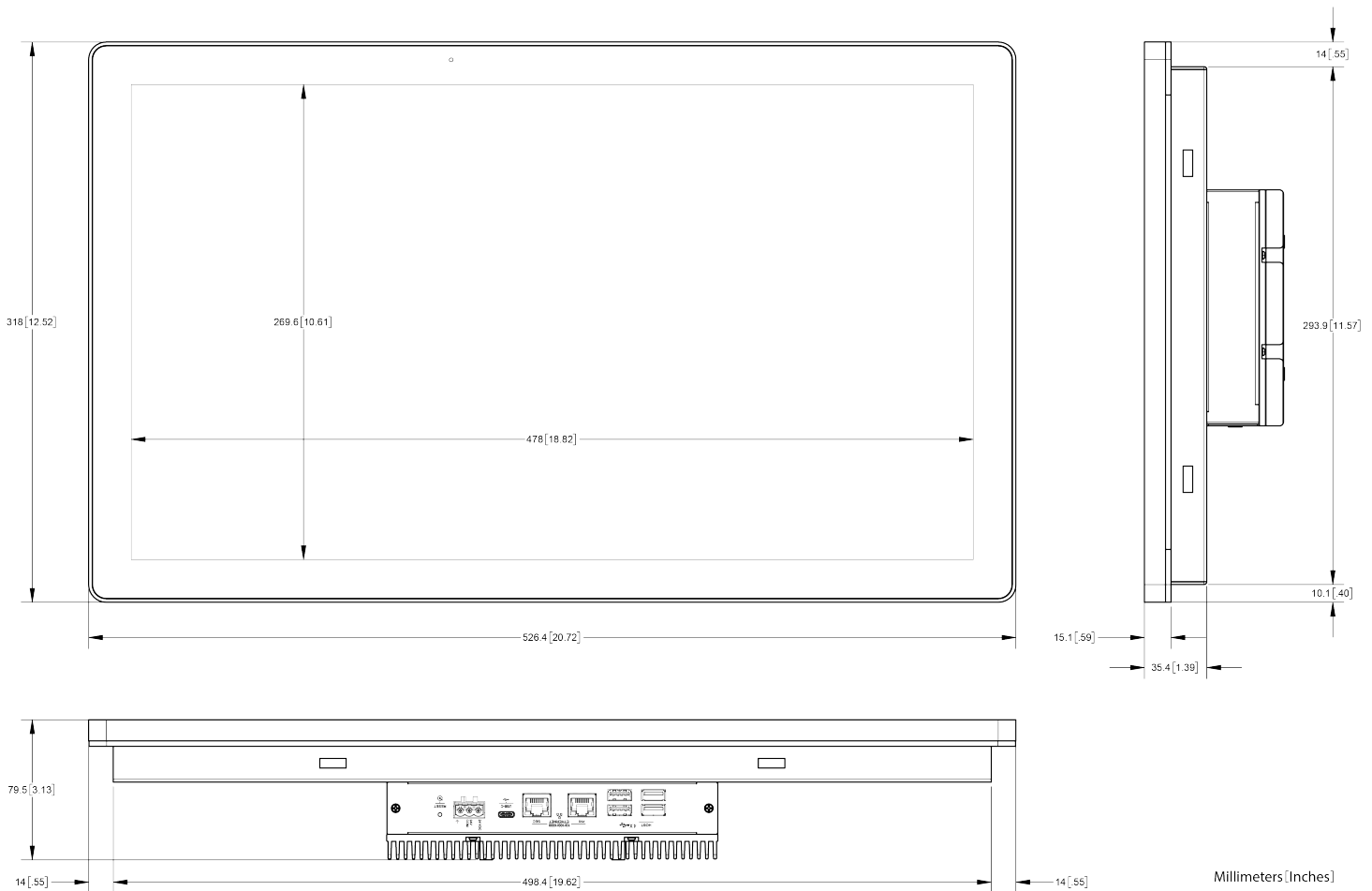


Figure 5: ECY- Display-21 dimensions

Mounting Instructions

This product has been specifically designed for easy installation. However, certain conditions apply when choosing a suitable location for the device:

- ☐ The device should not be installed on an exterior wall.
- ☐ The device should not be installed near a heat source.
- ☐ Install the device in an area that provides proper device ventilation. Nothing must restrain air circulation to the device.
- ☐ The device should be installed vertically, either in landscape or portrait orientation.

Electrical Panel Mounting Installation Procedure

This product can be mounted on electrical panels using the supplied mounting brackets.

The panel thickness shall not exceed 8 mm (0.31").

This mounting method provides an IP65 environmental rating.

1. Using the cutout sheets, trace and cut an opening in the panel door.
IMPORTANT: The cutout sheets are available on the Documentation and Resources Portal at docs.distech-controls.com. The sheets must be printed in **actual size/to scale** to preserve the scale of the template.
2. Pull all cables (power supply, Ethernet, etc.) through the panel cavity.
3. Connect all wiring to the display, power supply last.
4. Insert the display into the cavity.
5. Mount the supplied fixing brackets on the back of the display.
6. Tighten the fixing brackets (recommended torque 0.7 Nm)

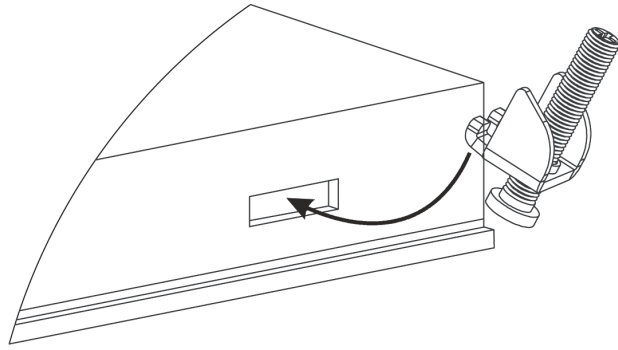


Figure 6: Panel Mounting

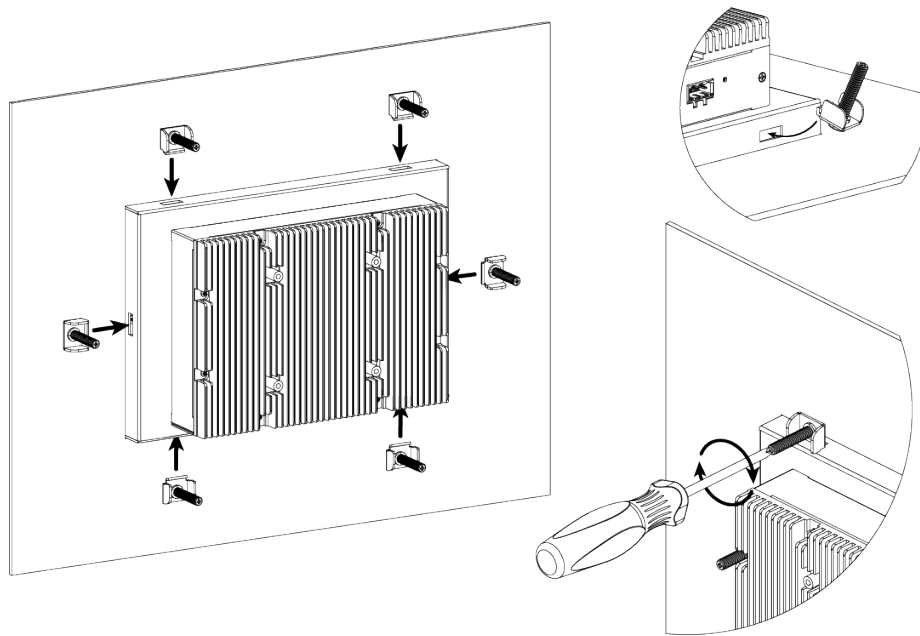


Figure 7: Panel Mounting - Rear View

Wall Mounting Installation Procedure

This product can be mounted on a dry wall using the optional in-wall mounting kit.

This mounting method provides an IP20 environmental rating.

1. Position the in-wall mounting box on the wall and trace the outline.
2. Make a cavity in the dry wall according to this tracing.
3. Fasten the safety harness to the wall-mounting box using the provided Phillips screw. If the harness is pre-installed for convenience, double check the tightness of the Phillips screw.
4. Pull all cables (power supply, Ethernet, etc) out of the wall cavity and through the mounting box.
5. Insert the wall mounting box into the cavity
6. Push out the appropriate pre-punched zones to ensure a tight fastening of the box.
7. Fasten the safety harness to the display using the provided Phillips screw:
8. Connect all wiring to the display, power supply last.

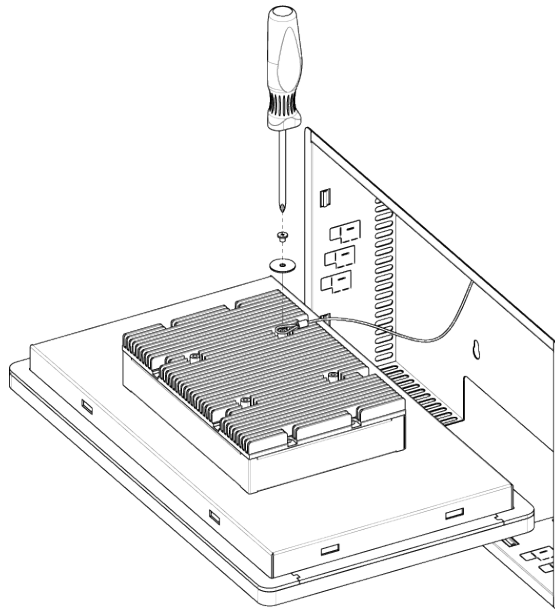
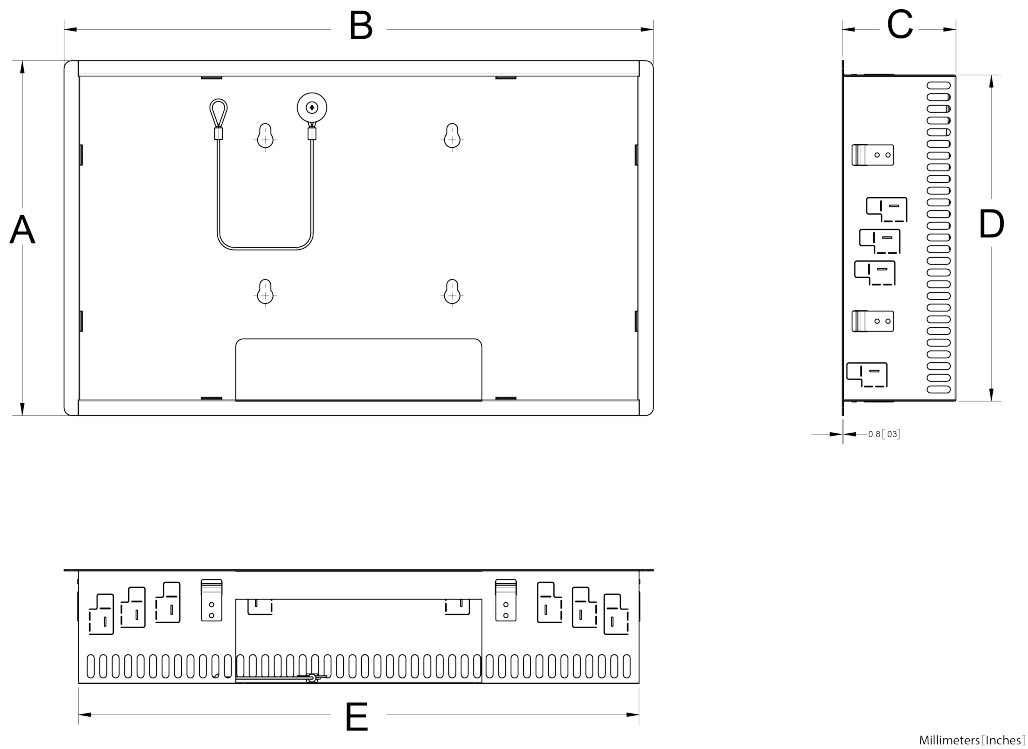


Figure 8: Safety harness installation

9. Insert the display into the in-wall mounting box, starting with the bottom side to fit the drawings
10. Push the display into the in-wall mounting box and make sure it clips tightly into place.

In-Wall Mounting Dimensions



Millimeters [Inches]

Figure 9: Eclipse Display In-Wall Mounting Dimensions

	A	B	C	D	E
ECY-Display-10	6.74" (171.2mm)	9.97" (253.2mm)	2.87" (73mm)	6.37" (161.8mm)	9.48" (240.8mm)
ECY-Display-15	8.96" (227.6mm)	14.89" (387.2mm)	2.87" (73mm)	8.28" (210.2mm)	11.20" (360.8mm)
ECY-Display-21	12.30" (312.5mm)	20.43" (519mm)	2.87" (73mm)	11.70" (297.1mm)	10.75" (501.6mm)

VESA Mounting

Eclipse Display units are compatible with standard VESA mounts (MIS-D 75 x 75mm).

Power Wiring

ECY-Display-10 and ECY-Display-15 ————— 24 VAC/VDC; $\pm 15\%$; Class 2 power source

ECY-Display-21 ————— 24 VDC; $\pm 15\%$; Class 2 power source

Device Insulation Type ————— Class 3 equipment



- ☐ Connect the Eclipse Display to a 24 VAC or 24 VDC power supply, or directly to the mains using the optional Eclipse Display power adapter.
- ☐ When using the Eclipse Display power adapter, plug it to a socket-outlet with ground connection.
- ☐ Use a terminal block suitable for 18-14 AWG.
- ☐ Use copper conductors only.
- ☐ Tighten connections at a torque of 0.4 Nm (3.45 lb-in.).



This is a Class 2 product. Use a Class 2 power supply only to power the device.



The power supply must meet the requirements for SELV (Safety Extra Low Voltage) / LPS (Limited Power Source) or ES1/PS2:

- ☐ minimum current must be 2.71 A at 24 VDC, or 3.7A at 24 VAC 50/60 Hz
- ☐ maximum ambient temperature must be 50°C (122°F)
- ☐ maximum altitude must be 2000 m (6561.68 ft)
- ☐ must be evaluated according to IEC/EN 60950-1 and/or IEC/EN 62368-1 or UL5085-3 for 24VAC transformers.

Power wiring using an external 24 VDC power supply

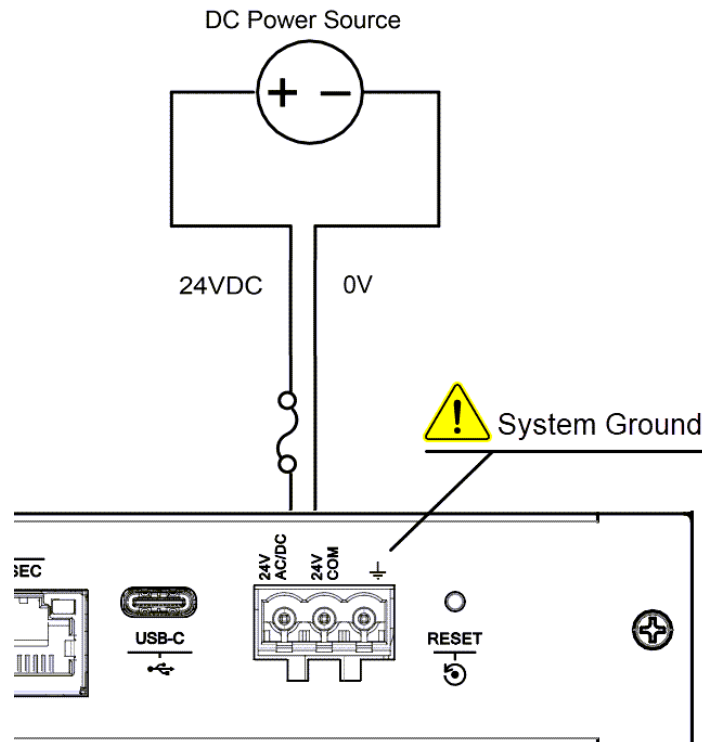


Figure 10: Powering the display and system ground

Power wiring using an external 24 VAC power supply

- ☐ Use a separate transformer rated at 100 VA for each Eclipse Display.
- ☐ Connect one terminal on the secondary side of the transformer to the building's ground.
- ☐ Use an external fuse on the secondary side (24VAC side) of the transformer, as shown in the figure below, in order to protect against power line spikes and miswiring.

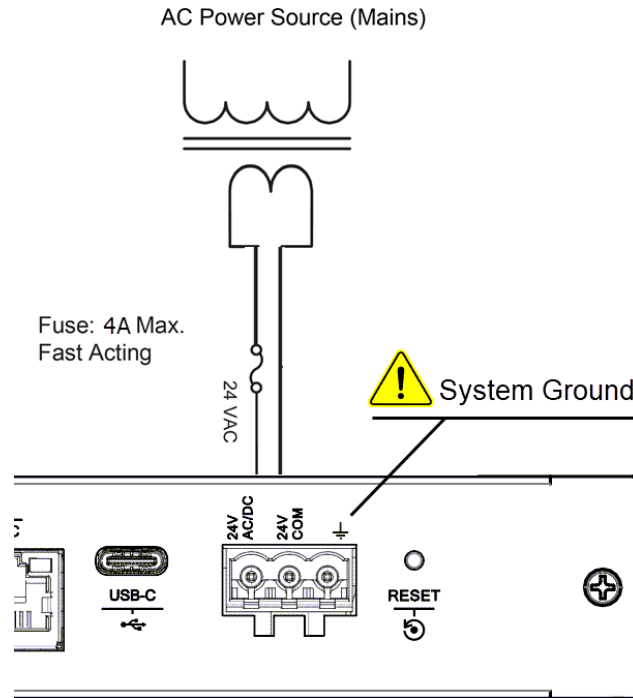


Figure 11: Power wiring using an external 24 VAC power supply



Alternatively, use the ECY-Display 24V Power Adapter to connect the display to an AC Mains power source. ECY-Display 24V power adapters are pre-fitted with 3-PIN Live-COM-GND connectors for convenience.

Communications Wiring

The Eclipse Displays are uniquely identified on the network by their MAC address. This identifier is printed on a label located on the back of the display and on its shipping box. This MAC address is used as part of the display's factory-default network hostname.

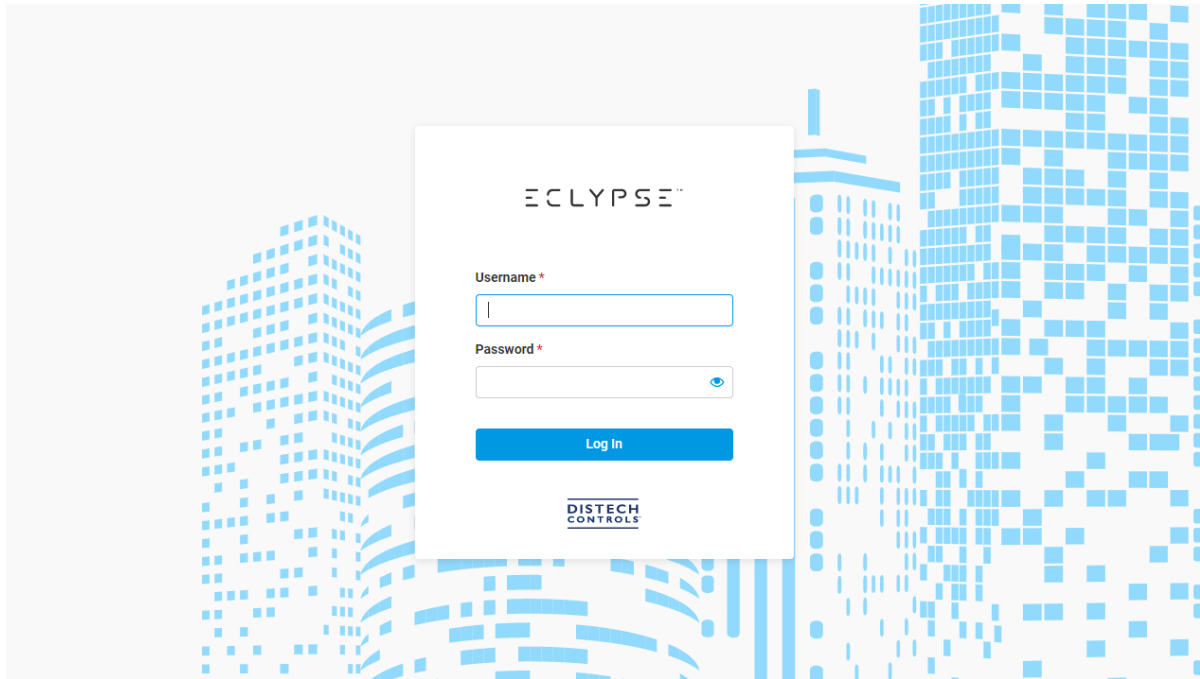
Wireless Connection

Once the Eclipse Wi-Fi Adapter has been connected to the device, a Wi-Fi hotspot becomes available that allows you to connect to the controller's configuration Web interface with your PC.

On your PC's wireless networks, look for an access point named **ECLYPSE-XXYYZZ** where **XXYYZZ** are the last 6 hexadecimal characters of the controller's MAC address (see above). The default password for the wireless network is: **eclypse1234**

Configuring the Device

Connecting to the Device's Configuration Web Interface



At the first connection to a Distech Controls' IP device you will be forced to change the password to a strong password for the admin account to protect access to the device.

In Network Settings, configure the device's network parameters so that they are compatible with your network. It is important to create new user accounts with strong passwords to protect the device from unauthorized access. Remove the factory default admin account as this is a commonly known security breach (only the password for this user account needs to be compromised).

Using the device's factory-default Hostname in a Web browser

IP devices have a factory-default hostname that you can use instead of an IP address to connect to it. The hostname can be used in a Web browser's address bar.

If your PC is unable to resolve the device's hostname, you must connect your PC to the device through Ethernet or Wi-Fi so that your PC only sees the IP devices network. For example, in this case, your PC must be disconnected from all other networks such as a corporate network or the Internet. If necessary, temporarily disconnect your PC's network cable from its Ethernet port.

The device's factory-default hostname is **eclipse-xxxxxx.local** where **xxxxxx** is the last 6 characters of the MAC address. See above.

For example, if the MAC address is 76:a5:04:cd:4a:d1, connect to the device's Web interface as follows:

1. Open your Web browser.
2. In the Web browser's address bar, type **https://eclipse-cd4ad1.local** and click go.
3. Login to the device. Then set the device's configuration parameters in the device's configuration Web interface. See Connecting to the Device's Configuration Web Interface.

Using the Device's IP Address in a Web Browser

You must know the device's current IP address (from the DHCP server for example) to connect to the device:

1. Open your Web browser.
2. In the Web browser's address bar, enter the device's IP address and click go.
3. Login to the device. Then set the device's configuration parameters in the device's configuration Web interface. See Connecting to the Device's Configuration Web Interface.

Using the XpressNetwork Utility

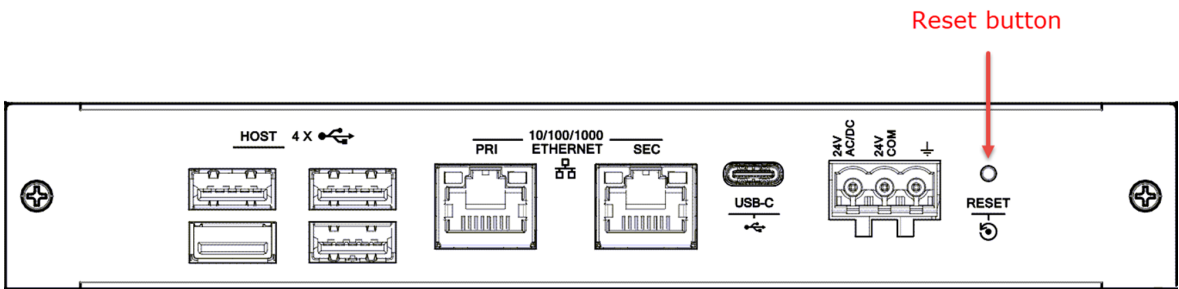
The XpressNetwork Utility is a software application that runs on a PC that allows you to discover all Distech Controls IP devices connected to an IP network's subnetwork or Wi-Fi network and to access the device's configuration Web interface. See the [XpressNetwork Utility User Guide](#) for more information.

The XpressNetwork Companion mobile app can be installed on your smartphone and it works with the QR code marked on the device and/or on the device's packaging which encodes the device's MAC address and host ID. By scanning the QR code, the app records this information to which you assign a hostname. Once the QR codes for all devices have been read in, the app's information is transferred to the XpressNetwork Utility where it is used to populate the relevant data fields. See the XpressNetwork Companion User Guide for more information.



Figure 12: Typical QR Code

Reset Button



Depending on how long you press the reset button, the following action will occur.

Hold Reset for	To
5 seconds	Restart / reboot
10 seconds	Reset Ethernet IP address back to factory default settings.
20 seconds	Reset to factory default settings. User accounts (usernames and passwords) will also be reset to the factory default settings and the license will be cleared.

 After you hold the reset button for 20 seconds, the HTTPS security certificates will be regenerated. If you use HTTPS to connect, you will no longer be able to connect from any PC that was used in the past unless you delete the old HTTPS security certificate from those PCs.

Ethernet Port Status Indicators

The Ethernet port has a green LED to indicate the connection status, and an orange LED to indicate the connection speed, as indicated in the table below.

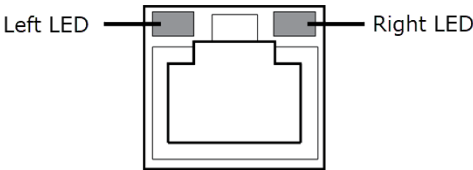


Figure 13: Ethernet port LED indicators

Left LED behavior/color	Right LED behavior	Connection status
OFF	OFF	Connection is not detected
Amber, blink	OFF	Active connection – 10 Mbps
Amber, blink	Green	Active connection – 100 Mbps
Amber, blink	Orange	Active connection – 1000 Mbps

Maintenance



Turn off power before any kind of servicing.

Minimal maintenance is required, but it is important to take note of the following:

- ☐ Clean this product by polishing with a soft dry cloth.
- ☐ Using a torque limited screwdriver set to 0.4 Nm (3.54 in-lb), retighten terminal connector screws annually to ensure the wires remain securely attached.

Disposal

The Waste Electrical and Electronic Equipment (WEEE) Directive sets out regulations for the recycling and disposal of products. The WEEE2002/96/EG Directive applies to standalone products, for example, products that can function entirely on their own and are not a part of another system or piece of equipment.

For this reason Distech Controls products are exempt from the WEEE Directive. Nevertheless, Distech Controls products are marked with the WEEE



symbol , indicating devices are not to be thrown away in municipal waste.

Products must be disposed of at the end of their useful life according to local regulations and the WEEE Directive.

North American Emissions Compliance

United States



Changes or modifications not expressly approved by Distech Controls could void the user's authority to operate the equipment.



This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential and commercial installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

Canada

This Class (B) digital apparatus meets all the requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la Classe (B) respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

Specifications subject to change without notice.

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