



HORYZON-R

IP-based resistive touchscreen color displays



HORYZON

Overview

The HORYZON-R IP-based resistive touchscreen color displays are an ideal user interface for a wide range of HVAC applications.

HORYZON Series displays provide easy and intuitive access to the internal data of ECLYPSE™ ECY series controllers, and of ECB series BACnet® and ECL series LONWORKS® controllers when they are operating under EC-Net™.

This allows you to quickly manage operating parameters of an HVAC system: monitor values, equipment and system status, and view active system alarms to perform diagnostics and take corrective actions such as overriding a sensor, pump, fan, or changing a setpoint.

HORYZON-R displays can be wall-mounted or panel mounted, for convenient access to the display where it is needed.

Applications

The HORYZON display is typically used for:

- Management and servicing of HVAC equipment, such as air handling units, central plants, and boilers rooms.
- Supervision of small to medium sized buildings.

Features & Benefits

IP Communication

This display communicates over IP for increased speed. Experience faster response and save time when configuring your system, or viewing graphics.

For further flexibility, HORYZON Series display addressing can be either configured manually with a static IP address or automatically using DHCP.

Multiple Devices Monitoring

Create and save connections for a quick and easy access to different ECLYPSE controllers or EC-Net systems, allowing you to monitor any controller in your installation from a single display.

Direct Access

Access any ECLYPSE ECY Series controller, or any ECB or ECL Series controller operating under an EC-Net system, and a wide range of their internal functions:

- View the active alarms list and, depending on the controller model, view alarm details to quickly identify issues and acknowledge alarms.
- View, set, and override input and output values to verify and troubleshoot equipment operation first hand to save time.

- Access a list of favorites to rapidly access commonly-used values.

No Programming

No need for extra programming; the interfaces are automatically generated from ECLYPSE and EC-Net systems.

Onsite Commissioning Efficiency

Reduce commissioning time by using the HORIZON Series displays to test connected sensors and actuators.

Multiple Sizes, Same Features

Three models are available: HORIZON-R4 (4.3"), HORIZON-R7 (7"), and HORIZON-R10 (10.1").

All models have the same features; simply select the right size to meet your specific needs.

Resistive Touchscreen

These screens use resistive touchscreen technology, which offers increased durability and service life of the product. As well, resistive touchscreens work well with any stylus-like object, and can also be operated with gloved fingers or bare fingers alike.

This makes it more appealing than a capacitive display where only bare skin touch is required.

Sleek Design

HORIZON displays provide a clean and sleek appearance when installed in offices or rather cramped electrical rooms.

Moreover, its overall thin form factor makes it suitable for cabinet or in-wall mounting in space constrained areas.

IP65 Electrical Panel Mounting

The HORIZON Series display is shipped with a panel mounting kit. Modify the cabinet door or panel using the provided cutout sheet with an aperture into which the display is inserted, allowing the screen to be securely tightened for a sealed installation.

This mounting method provides an IP65 environmental rating.

IP20 In-Wall Mounting

An optional in-wall mounting kit can be purchased for the HORIZON Series display. The kit is mounted into a wall cavity and it provides an IP20 environmental rating.

An anti-theft cable lock is provided with the in-wall mounting kit for enhanced security.

Model Selection

HORIZON-R IP-based Touchscreen Color Resistive Displays

HORIZON-R4	4.3" resistive touchscreen color display
HORIZON R7	7" resistive touchscreen color display
HORIZON R10	10.1" resistive touchscreen color display

Accessories

HORIZON-R4 In-Wall Mounting Kit	Low profile metal mounting box for the HORIZON-R4 display
HORIZON-R7 In-Wall Mounting Kit	Low profile metal mounting box for the HORIZON-R7 display
HORIZON-R10 In-Wall Mounting Kit	Low profile metal mounting box for the HORIZON-R10 display
HORIZON Power Adapter	100-240 VAC, multi-prong, universal wall adapter for the HORIZON Series displays. US, European, UK and Australian plugs included.
HORIZON Power Cable	1m (3.3") cable for powering HORIZON Series displays from the ECLYPSE Connected System Controller or the ECY-PS power supply modules.

Product Specifications

Power Supply

Voltage ————— 24 VDC (18 to 32 VDC); Class 2

Power Consumption:

- HORIZON-R4 ————— 250 mA @ 24 VDC (max.)
- HORIZON-R7 ————— 300 mA @ 24 VDC (max.)
- HORIZON-R10 ————— 380 mA @ 24 VDC (max.)

Oversvoltage protection ————— PTC resettable fuse designed to hold 1.5 A (typical trip current 3 A)

Operator Interface

Type ————— TFT analog resistive touchscreen

Resolution:

HORIZON-R4 ————— 80 × 272

HORIZON-R7 ————— 800 × 480 WGA

HORIZON-R10 ————— 1024 × 600 WSGA

Active display area:

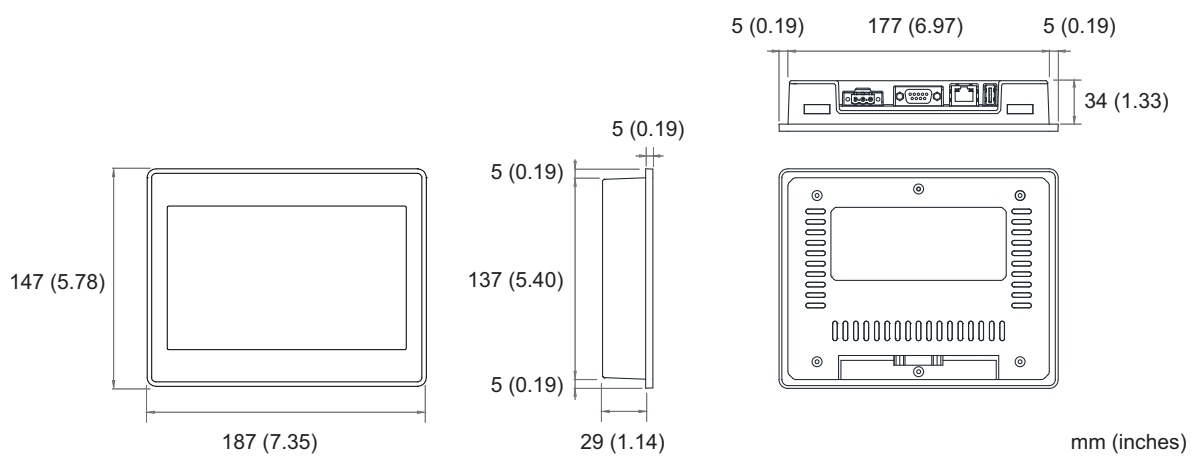
HORIZON-R4 ————— 2.13 × 3.74" (54 × 95 mm) - 4.3" diagonal

HORIZON-R7 ————— 3.62 × 6.02" (92 × 153 mm) - 7" diagonal

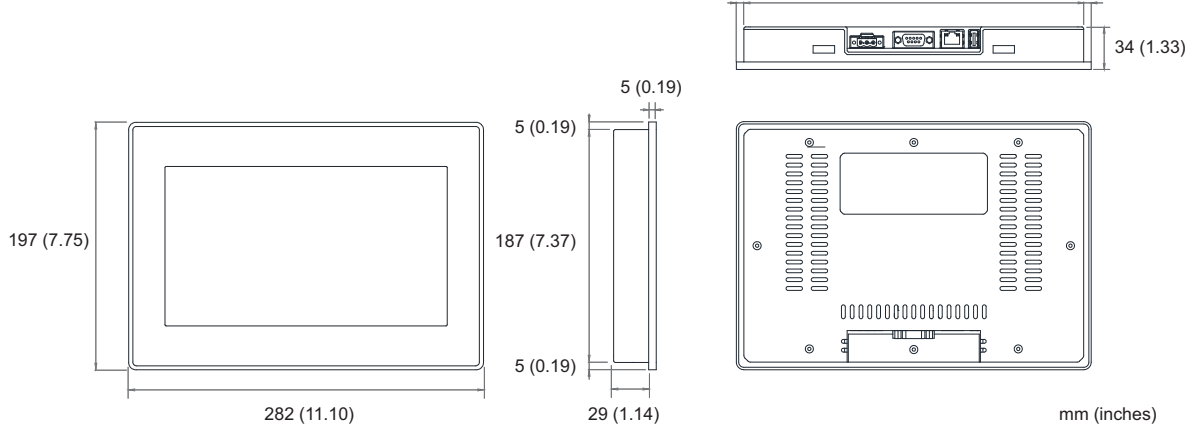
HORIZON-R10 ————— 5.12 × 8.70" (130 × 221 mm) - 10.1" diagonal

Colors ————— 64 K

Backlight ————— LED



- HORIZON-R10 ————— 282 × 197 mm / 271 × 186 mm / 29 + 5 mm
11.10 × 7.75" / 10.66 × 7.32" / 1.14 + 0.19"



Shipping weight:

- HORIZON-R4 ————— 0.4 kg (0.88 lbs)
- HORIZON-R7 ————— 0.6 kg (1.32 lbs)
- HORIZON-R10 ————— 1.0 kg (2.20 lbs)

Mounting:

- Electrical panel mounting kit ————— Included
- In-wall mounting kit ————— Optional

Material ————— PC+ABS

Enclosure Rating ————— Plastic housing, UL94-5VB flammability rating

Environmental

Operating Temperature (vertical installation) ————— 0°C to 50°C (32°F to 122°F)

Storage Temperature ————— - 20°C to 70°C (32°F to 122°F)

Ingress Protection Rating ————— IP20 if in-wall mounted, IP65 if panel-mounted

Pollution Degree ————— 2

Standards and Regulation

CE - Emission ————— EN61000-6-3: Generic standards for residential, commercial and light-industrial environments

EN61000-6-4; Generic standards for industrial environments.

CE - Immunity ————— EN61000-6-1; Generic standards for residential, commercial and light-industrial environments

EN61000-6-2: Generic standards for industrial environments

UL Listed (CDN & US) ————— UL508: Industrial Control Equipment

FCC ————— This device complies with FCC rules part 15, subpart B, class B



Specifications subject to change without notice.

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