



# HORYZON-C

IP-based capacitive multi-touch color displays



HORYZON

## Overview

The HORYZON-C IP-based capacitive multi-touch color display is an ideal user interface for a wide range of HVAC, lighting, and sunblind 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™.

Easily 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.

## Applications

The HORYZON-C 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.
- Smart Room Control (HVAC, lighting and shades/sunblinds) in small to medium sized room applications

## Features & Benefits

### Enhanced Browsing

HORYZON-C combines a bright and inviting display with a powerful quad-core processor embedding high-end graphical engine. This makes it the perfect display for navigating in highly-demanding responsive HTML5 web environments.

Advanced features such as auto-login and self-checking connection optimize the browsing experience.

### Capacitive Multi-Touch Screen

The HORYZON-C display responds to the slightest touch and supports gestures such as flicking and zooming, allowing for smartphone-like operation for unparalleled user experience.

### HTML5 Visual Interface

ENVYSION is a web-based graphic design and visualization interface used to create and deliver interactive graphical user interfaces and an optimal user experience for building owners and facility managers to better manage facility data.



Combine ENVYSION's powerful capabilities with HORIZON-C's unique touch and feel to create the optimal high-end interface for Smart Room Control solutions. This allows end-users to intuitively manage occupancy, HVAC, lighting and shades/sunblinds, while system integrators can easily program and store specific scenes to be recalled depending on the different room occupancy scenarios.



Moreover, you can use the standard interfaces generated from ECLYPSE and EC-Net systems for fast deployment in time-constrained projects.

Embedded PDF reader allows you to view PDFs directly on HORIZON-C.

## 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, HORIZON Series display addressing can be either configured manually with a static IP address or automatically using DHCP.

When using the ECLYPSE Wi-Fi Adapter you can connect to the building's existing Wi-Fi network. Additionally, in a permanent installation, labor and material costs can be reduced by eliminating the need for Ethernet cables and the time associated with pulling those cables.

## Setup your Installation at a Glance

Combine xpressNetwork Utility, EC-gfxProgram, xpressENVYSION, and the Productivity Enhancing Tools with ECLYPSE controllers and HORIZON-C display to setup your installation in no time.

## Web Access

HORIZON-C displays are equipped with an embedded webserver which enables device configuration directly from within XpressNetwork Utility.

Web access also allows the user to perform multiple tasks such as user management, firmware updates, device setup, and much more, all remotely from a web browser.

## Multiple Device Monitoring

Create and save connections for 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.

## Adaptive Brightness

HORIZON-C displays are equipped with an ambient light sensor that detects the light level in the environment and adjusts the display brightness accordingly for optimal reading comfort.

Screen brightness behavior is also fully programmable, allowing you to adjust the screen behavior to your specific installation.

## Auto-rotate Feature

HORIZON-C displays integrate a gyroscope that triggers either the horizontal (landscape) or vertical (portrait) mode depending on the mounting scenario. The screen orientation will automatically adjust based on the installation position without any additional configuration.

## Versatile Alarm Management

HORIZON-C displays feature a relay output for optional control of external visual and/or acoustic alarm management devices, while the integrated buzzer can eliminate the need for an additional device.

Both the relay and the buzzer can be set independently and linked to any BACnet Notification Class.

## 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.

## Sleek Design

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

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

## Setup Assistant

HORIZON-C's setup assistant simplifies the installation tasks by providing everything you need for a quick set-up:

- Admin password definition
- IP configuration
- Applications management
- Credential settings for auto-login

This significantly reduces installation time and facilitates wide-scale deployment.

## Self-Checking Connection

HORIZON-C displays continuously test the connection with the controller and immediately display an alert if the connection is lost.

This allows you to ensure the accuracy of displayed information, with real or near real-time data, and eases troubleshooting tasks.

## 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.

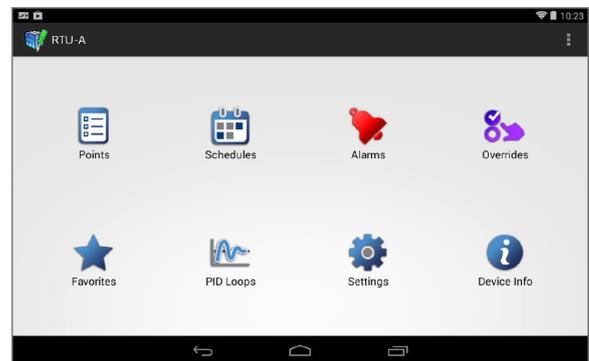
## IP20 In-Wall Mounting

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.

## myDC Control App

myDC Control app is embedded in all HORIZON Series models, allowing you to view, set, and override values of inputs and outputs, view active system alarms, adjust setpoints and override equipment and occupancy, change the system operating schedule, and more.



No need for extra programming, the different interfaces are automatically generated from ECLYPSE controllers or EC-Net systems.

# Model Selection

Two models are available, both offering all the same features.

HORYZON-C7	7" capacitive multi-touch color display
HORYZON-C10	10.1" capacitive multi-touch color display

## Accessories

HORYZON-C7 In-Wall Mounting Kit	Low profile metal mounting box for the HORYZON-C7 display
HORYZON-C10 In-Wall Mounting Kit	Low profile metal mounting box for the HORYZON-C10 display
HORYZON Power Adapter	100-240 VAC, multi-prong, universal wall adapter for the HORYZON Series displays. US, European, UK and Australian plugs included.
HORYZON Power Cable	1m (3.3") cable for powering HORYZON Series displays from the ECLYPSE Connected System Controller or the ECY-PS power supply modules.

## Product Specifications

### Power Supply

Voltage ————— 24 VAC/DC;  $\pm 15\%$ ; Class 2  
or via HORYZON power cable

Power consumption ————— HORYZON-C10: 15W  
————— HORYZON-C7: 13W

#### HORYZON-C7

- DC power supply ————— 16 W
- AC power supply ————— 21 VA

#### HORYZON-C10

- DC power supply ————— 18 W
- AC power supply ————— 24 VA

### Operator Interface

Type ————— TFT LCD capacitive touchscreen

#### Resolution:

- HORYZON-C7 ————— 1024 x 600 WSVGA
- HORYZON-C10 ————— 1280 x 800 WXGA

#### Active display area:

- HORYZON-C7 ————— 154 x 86 mm (6.06 x 3.39")
- HORYZON-C10 ————— 217 x 136 mm (8.54 x 5.34)

Colors ————— 16.7 M

Backlight ————— LED

Brightness ————— 350 Cd/m<sup>2</sup>

Dimming ————— Adaptive brightness, software configurable

### Hardware

Processor ————— Intel® Atom™ x5-Z8350 Processor

(2M Cache) CPU with 64 bit architecture; Quad Core

CPU Speed ————— 1.44 GHz up to 1.92 GHz

Graphics ————— Intel® HD 400 Graphics ,12 EU GEN 8, up to 500 MHz

Memory ————— 2 GB DDR3L-1600

32 GB eMMC (storage)

Supported APIs – DX\*11.1/12, Open GL\*4.2, Open CL\*1.2 OGL ES3.0, H.264, HEVC(decode), VP8

Real Time Clock (RTC) ————— Yes

## Communications

Communication ports ————— 1 × RJ-45 Ethernet port

————— 4 × USB 2.0 ports (not used)

Ethernet Connection Speed ————— 10/100/1000 Mbps

## Software

Operating System ————— Android Nougat 7.0

Connectivity requirements ————— ECLYPSE Controller or EC-Net System

## Outputs

### Digital (On/Off)

Type ————— Dry contact

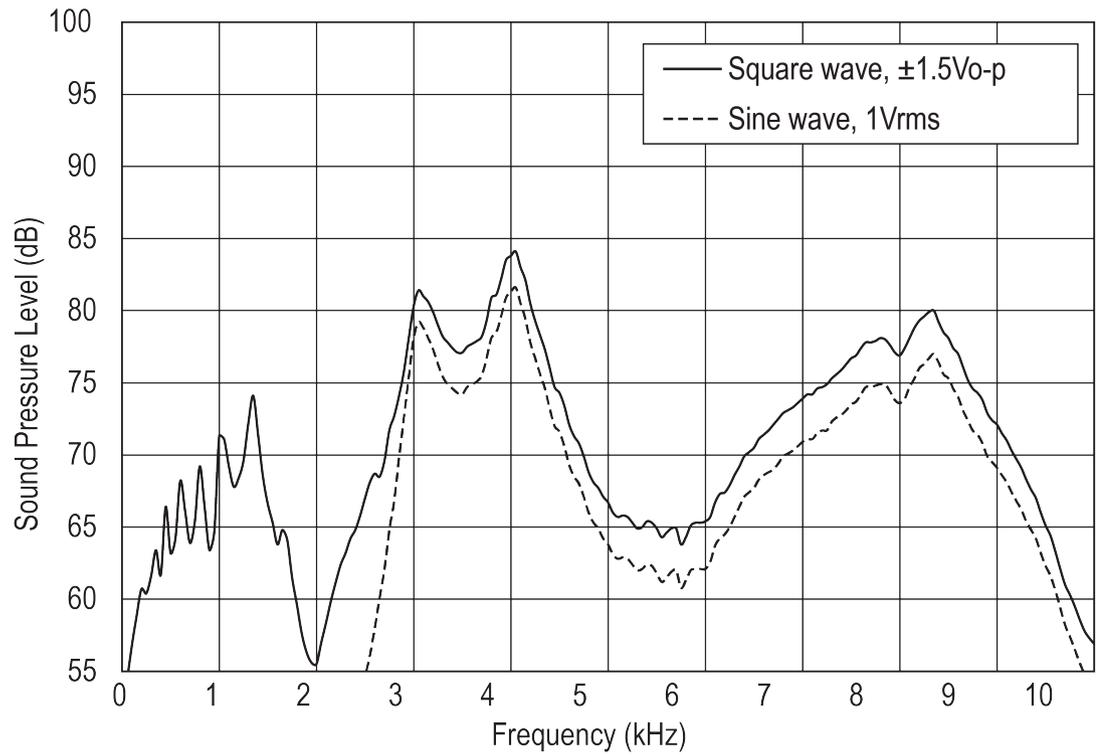
Rating ————— 24 VAC/DC Class 2; 2.5A max

### Sound Output

Type ————— Buzzer

Decibel Rating:

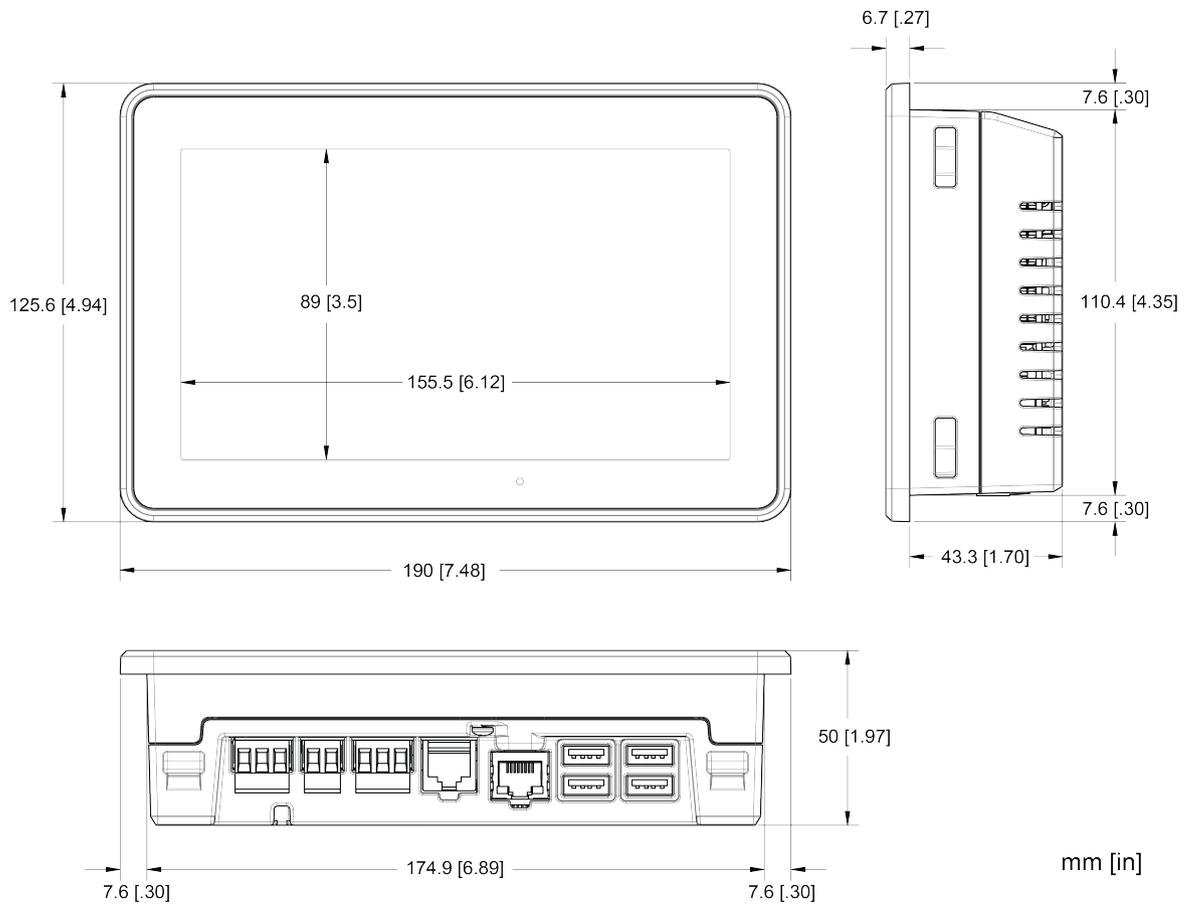
Conditions: 10cm, A-filter



### Mechanical

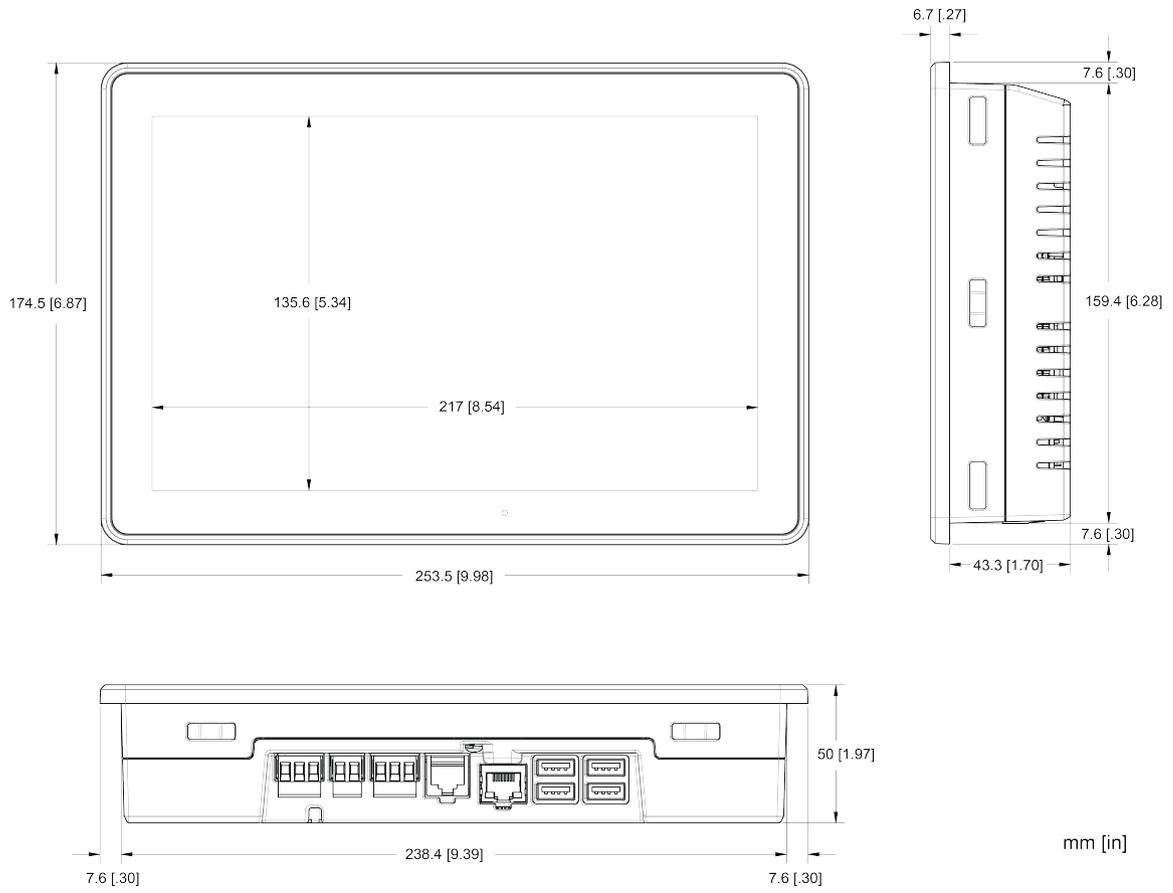
Dimensions:

□ HORYZON-C7 ————— 190 x 126 x 44 mm (7.48 x 4.94 x 1.70")



mm [in]

□ HORYZON-C10 ————— 254 x 175 x 44 mm (9.98 x 6.87 x 1.7")



**Shipping weight:**

- HORIZON-C7 ————— 1.5 kg (2.20lbs)
- HORIZON-C10 ————— 2.2 kg (4.41 lbs)

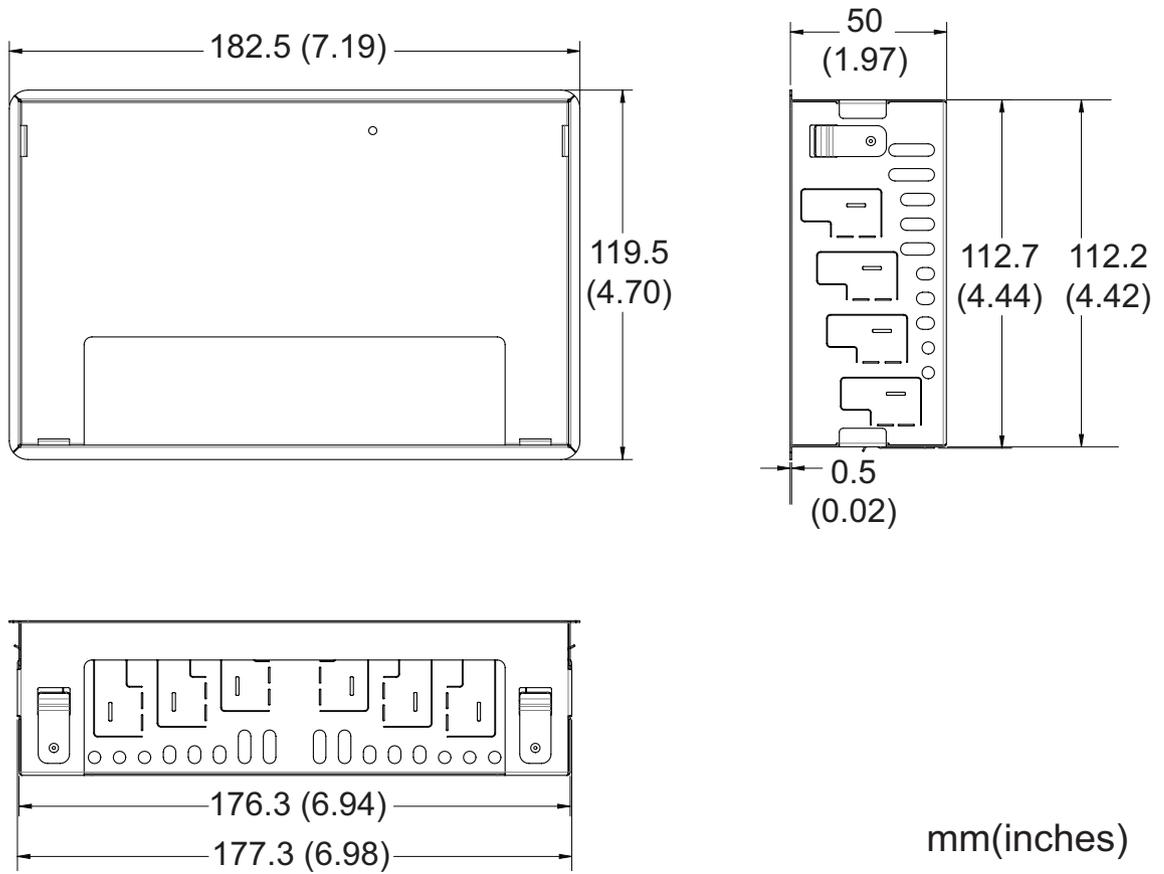
**Material** ————— Aluminium

**Mounting:**

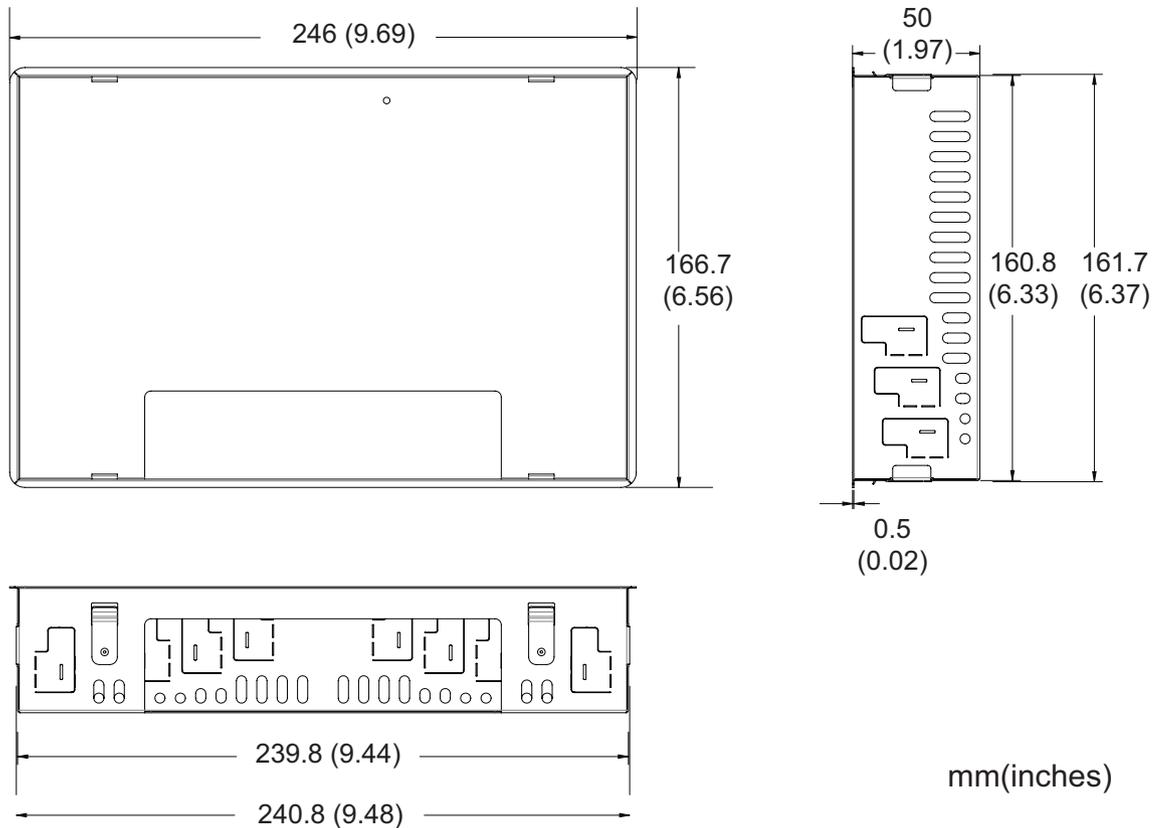
- Electrical panel mounting kit ————— Included
- In-wall mounting kit ————— Optional

**Optional in-wall mounting kits dimensions:**

- HORIZON-C7 In-Wall Mounting Kit ————— 182.5 x 119.5 x 50 mm (7.19 x 4.70 x 1.97")



- HORYZON-C10 In-Wall Mounting Kit ————— 246 x 166.7 x 50 mm (9.69 x 6.56 x 1.70")



## Environmental

Operating Temperature ————— 0°C to 50°C [32°F to 122°F]

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

Relative Humidity ————— 0 to 90% Non-condensing

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

## Standards and Regulation (pending)

CE - Emission ————— EN61000-6-3: 2007; A1:2011; Generic standards for residential, commercial and light-industrial environments

CE - Immunity ————— EN61000-6-1: 2007; Generic standards for residential, commercial and light-industrial environments

UL Listed (CDN & US) ————— UL916 Energy management equipment

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

RoHS ————— All materials and manufacturing processes comply with the RoHS directive.

WEEE ————— All products are marked according to the Waste Electrical and Electronic Equipment (WEEE) directive.



Specifications subject to change without notice.

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