LYNXSPRING®

Onyxx® Wall Module

DATA SHEET

Onyxx Wall Module

A Digitally Connected Sensor for Intelligent Spaces

Application

The Onyxx Wall Module (OWM) is a configurable sensor for smarter buildings. As visually appealing as it is advanced in its application, the OWM is designed for ease of installation and dependability for multiple uses.

Engineered to accompany the JENEsys Edge® family of intelligent controllers, it accurately senses temperature and humidity. When communicating with a connected controller, it displays the sensed values, mode, time, controller status, and more. Change setpoints, control modes, perform overrides and signal the controller directly from the Onyxx Wall Module.

Use it to directly provide controlled variables and feedback from VAVs, Rooftop Units, Heat Pumps, Air Handlers, Terminal Units, other equipment, and their accessories.

Interface & Physical Properties

The face of the enclosure is entirely glass with an embedded full-touch interface. The OWM features programmable touch operations such as in/out/up/down buttons, swipes, and exclusive levels of access.

The screen is backlit enabled using RGBW LEDs, housed in a durable ABS plastic enclosure and mountable to a standard 4" x 2" electrical single gang box or anchored directly to the wall. An RJ-12 connector is flush with the back of the enclosure to allow for easy connection to a JENEsys Edge controller.

Features

- Change Setpoints from Display
- Display Color Customization
- Made in the U.S.A.

The sensor is auto-discovered upon connection and requires no user interaction to auto-address within the JENEsys Edge controller and begin communicating when connecting a single OWM.

The JENEsys Edge controller services enable the Onyxx Wall Module menu system to be accessed using the soft-touch interface. Connect up to 4 OWMs to a single Edge device for multi-room command of indoor climate (manual discovery is required when connecting multiple OWMs to a single Edge device).

Ordering Information

Part Number	Description
ONYXX-WM-T-RH-W	White Onyxx Wall Module Temp/Humidity*
ONYXX-WM-T-RH-B	Black Onyxx Wall Module Temp/Humidity*
ONYXX-WM-T-RH-W-CSE	White OWM - Case of 18*
ONYXX-WM-T-RH-B-CSE	Black OWM - Case of 18*

* Mounting hardware included

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www.lynxspring.com
2900 NE Independence Ave,
Lees Summit, MO 64064
877-649-5969 | sales@lynxspring.com

Specifications

Screen

LCD Display	2.4" TFT Transmissive, Normally Black, IPS
Resolution	RGB 240 x 320
View Direction	Full Range
Color Depth	65K

Touch

Capacitive Touch Panel	Multi-Point and Gesture Capable
Active Touch Area	Entire Glass Face

Sensors

Temperature Accuracy	+/-0.2 °C over 0 °C - 60 °C span
Humidity Accuracy	+/- 1.8 RH over 25-75% RH span. Full range +/- 3%
ALS Range	0.01 LUX to 83K Lux (auto ranging)
ALS Function	Automatic LCD and Button Brightness Control

Power

Supply Voltage	15VDC +/- 10%
Operating Current (MAX)	250mA

Communications

Network	OWM CAN bus
Controller Interface	6P6C RJ12
Interface Pinout	1-PWR (-), 2-NC, 3-LxH, 4-LxL, 5-NC, 6-PWR(+)
Wire Gauge	18-22 Gauge
Maximum Wire length	300 Feet
Wall Modules per Controller	4 Max

Environment

Min/Max Operating Temp	-20 °C to 70 °C / -4 °F to 158 °F
Suggested Operating Temp	0 °C to 50 °C / 32 °F to 122 °F
Storage Temperature	-30 °C to 80 °C /-22 °F to 176 °F
Relative Humidity Range	5 – 95% RH, non-condensing

Enclosure

Color and Material	Black or White ABS
Dimensions	4"x 3"x 0.9"
Mounting	4"x 2" Electrical Box or Wall Anchors (#6 screws)

Weight

Module Weight	4.5 ounces

Certifications

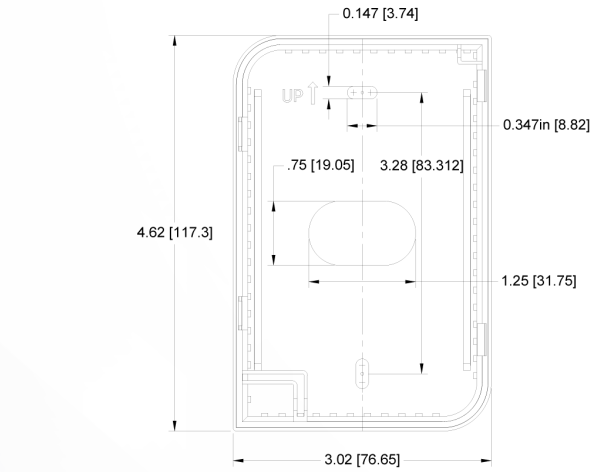
Compliance	Enclosure UL94V0 FCC Class B (Unintentional Radiator)

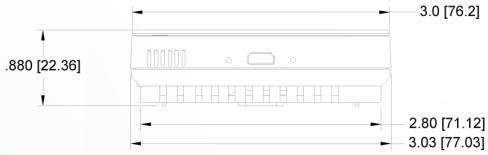
Performance

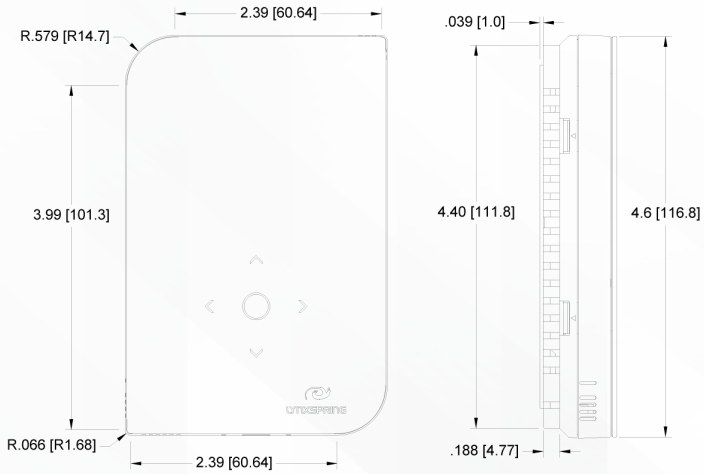
Memory	16MB Flash, 448kB ROM, 536kB SRAM
Operating Speed	250mHz

Loading & Reset

Mirco USB to Serial Bridge	1 Port
Recessed Buttons (2)	1 - Reset, 2 - Local Program Load







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