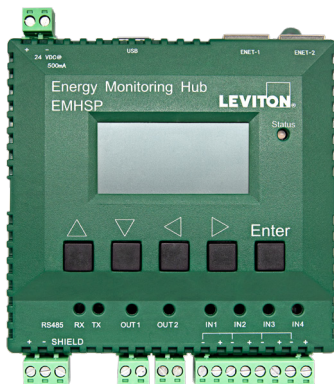


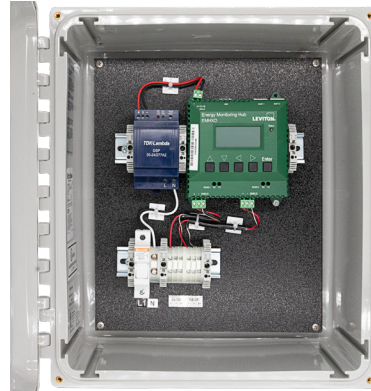
# EMHxD and EMHSP -COD and -CDX Data Acquisition Servers



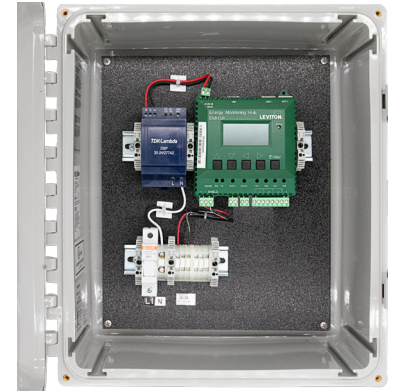
EMHxD-COD



EMHSP-COD



EMHxD-CDX



EMHSP-CDX

## Description

Leviton's EMHxD and EMHSP are intelligent, flexible data acquisition servers allowing users to collect energy data from meters and environmental sensors through Modbus protocol or pulse input. Designed to connect to IP-based applications such as code compliance, enterprise energy management, demand response and smart grid programs, the EMH lets you connect thousands of energy points, benchmark energy usage and reduce energy costs. Featuring Dual Ethernet ports and Dual Modbus (RS485) ports, the EMHxD provides expanded capacity and flexibility to address a broad range of applications. The EMHSP offers the same Dual Ethernet ports with a single Modbus (RS485) input and 4 inputs for pulse or other sensor inputs. The EMHxx-CDX comes integrated into a NEMA 4X enclosure with an integrated power supply to simplify installation in the field.

## Embedded OEM Solution

The compact EMH footprint and industrial temperature range -22°F to 158°F (-30° to 70°C) makes this a perfect solution for embedded applications. Reduce development time and speed up integration by collecting and distributing energy information directly from your equipment.

## Data Collection

The EMH collects and logs data from connected devices based on user selected intervals. Data from downstream devices is time stamped and stored locally in non-volatile memory until the next scheduled upload or manual download. Using an Ethernet (LAN) connection you can push or pull data via HTTPS, XML, FTP or any custom protocol utilizing our EMH Module to build your own application. Dual Ethernet ports allow for separate and secure upstream connections to external networks and downstream connections to the internal device networks.

## Compatibility

The EMH is compatible with nearly any front-end software platform allowing customers to use a variety of reporting tools; whether it's a local server or an enterprise wide reporting suite.

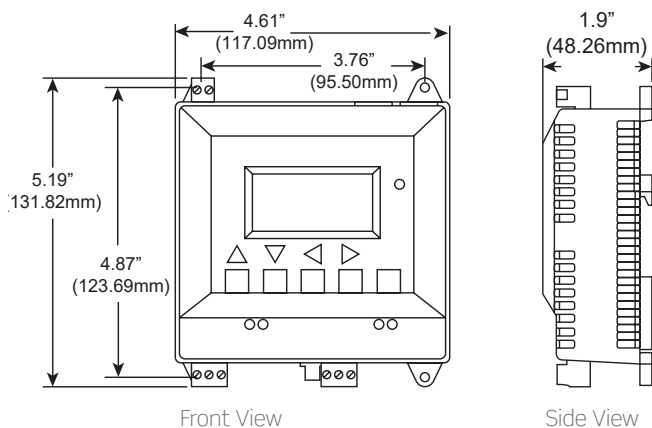
## Installation & Features

No software is required. Easily access information through your web browser. There are several additional features including alarming, SNMP traps, network configuration, wireless diagnostics, USB, security provisions and backlit LCD. Our integrated meter driver library is designed to speed up installation and lower integration costs through plug-and-play connectivity.

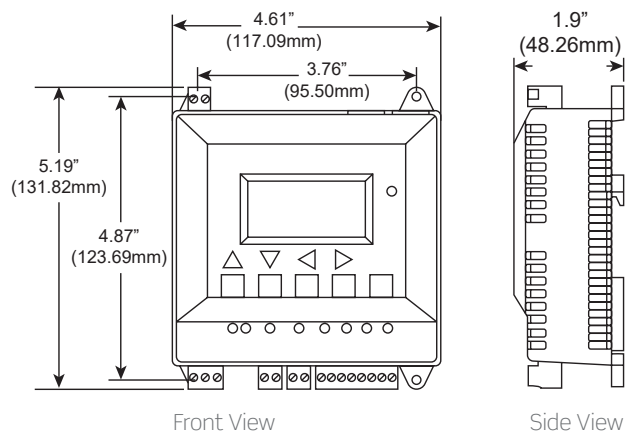
## Applications

- Code compliance reporting
- Measurement and verification (M&V)
- Tenant billing
- Reduce energy costs
- Access energy information from local or remote sites
- Benchmark building energy usage
- View "real time" performance data
- Track energy use and peak demand for Demand Response programs
- Monitor performance of critical systems (lighting, HVAC, PDUs, inverters, etc.)
- Alarm notification for data points above or below target levels (including SNMP traps)
- Monitor renewable energy performance and production
- Push or pull meter data to energy dashboards, kiosks and software applications
- Manufactured in U.S.A
- Supports code compliance applications like ASHRAE, IECC, 2022 CA Title 24, and LEED

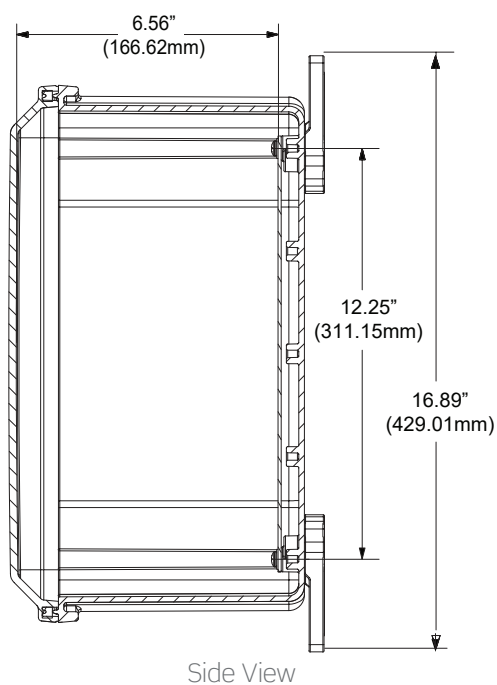
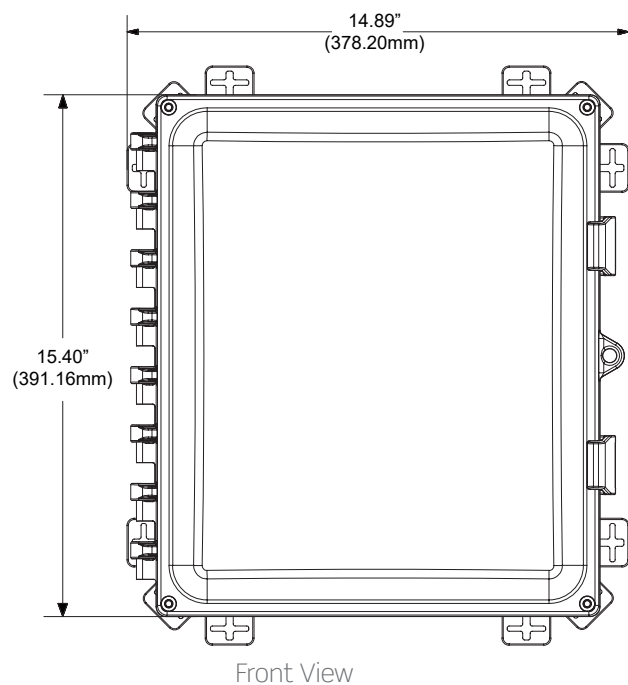
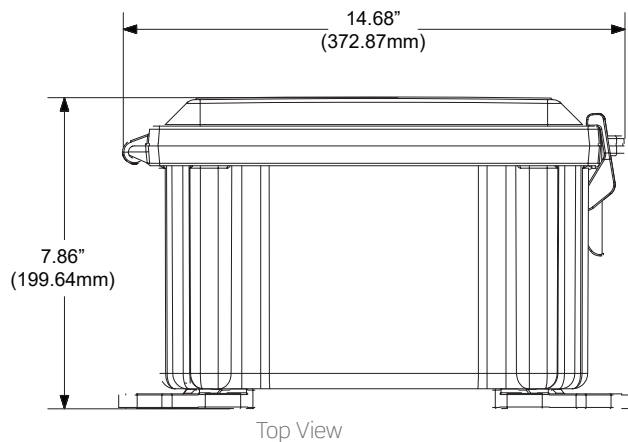
## Dimensions - EMHxD-COD



## Dimensions - EMHSP-COD



## Dimensions - EMHxD-CDX and EMHSP-CDX



## Specifications

EMHxD-COD		EMHSP-COD		EMHxD-CDX		EMHSP-CDX			
Processor		i.MX 6UltraLite							
Operating System		Linux 4.x							
Memory		512 MB RAM							
Flash ROM		8 GB eMMC Flash							
Interval Recording		1 to 60 minutes, user selectable (default 15 minutes)							
LEDs		Ethernet, Modbus TX/RX, power, alarm							
Console		128 x 64 pixel LCD with 5 button interface							
Power									
Power Supply*		24VDC, 500mA *This unit is to be sourced by a Class 2 power supply with the following output: 24VDC, 500mA min not to exceed 8A			100-277VAC 50/60Hz, 1.5A Max, Class II, double insulated				
Isolation		RJ45 Ethernet and RS-485 port are isolated to 1500VDC from the main board (Power and USB non-isolated)			RJ45 Ethernet is isolated to 1500VDC from the main board (Power and USB non-isolated)				
Communication									
Protocols		Modbus/RTU, BACnet/MSTP, Modbus/TCP, BACnet/IP, TCP/IP, PPP, HTTP/HTML, FTP, NTP, XML, SNMP trap							
LAN		2 RJ45 10/100 Ethernet, full duplex, auto polarity							
USB		USB expansion port							
Security		SSL/TLS							
Inputs									
Serial Ports		2 RS-485 Modbus, each supporting up to 32 external devices (64 devices total)		1 RS485 Modbus		2 RS-485 Modbus, each supporting up to 32 external devices (64 devices total)		1 RS485 Modbus	
Digital Inputs		-		4 pulse inputs, pulse-KYZ, 250 Hz		-		4 pulse inputs, pulse-KYZ, 250 Hz	
Outputs		-		2 dry contact relay outputs (0-30v up to 50 mA)		-		2 dry contact relay outputs (0-30v up to 50 mA)	
Physical									
Weight		0.42lbs (0.19kg)				14.5lbs (6.58kg)			
Size		4.61" W x 5.19" H x 1.9" D (117.1mm x 131.9mm x 48.3mm)				14.68" W x 15.40" H x 7.86" D (372.872mm x 391.16mm x 199.64mm)			
Environment									
Operating Temperature Range		-22°F to 158°F (-30°C to 70°C), 95% RH, non-condensing							
Altitude		2000M max							
Pollution		Degree 2							
Codes & Standards									
FCC CFR 47 Part 15, Class A, EN 61000, EN 61326, CE, UL61010 Recognized									

## Ordering Information

EMHxx	
Cat. No.	Description
EMHxD-COD	Energy Monitoring HUB, 2 Ethernet, 2 Modbus (RS485)
EMHSP-COD	Energy Monitoring HUB, 2 Ethernet, 1 Modbus (RS485), 4 Pulse Inputs, 2 Relay Outputs
EMHxD-CDX	EMHxD Energy Monitoring HUB with line voltage power supply, NEMA 4X enclosure
EMHSP-CDX	EMHSP Energy Monitoring HUB with line voltage power supply, NEMA 4X enclosure
YBM07-001	Power Supply, required for use with EMHxD-COD and EMHSP-COD

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