

CoreSync Air Quality Monitor >

The Air Quality Monitor is a low voltage sensor platform leveraging network connected Molex CoreSync infrastructure for digital building applications.

Carbon Dioxide (CO2), Particulate Matter (PM1, PM2.5, PM10), Total Volatile Organic Compounds (TVOC), Temperature, and Humidity data is granularly collected by the sensor array and can be transferred to BMS and/or other 3rd-party systems including cloud platforms for augmented building control and automation as well as advanced reporting and analytics.



FEATURES AND ADVANTAGES

Compliant with WELL requirements	Wall mounted at head height complies with WELL requirements
CoreSync 2.0 enabled	Easy integration with Molex CoreSync devices and Dashboard
Class 2 device	Low voltage PoE infrastructure for power, control, and communication
Individually Addressable	Allows easy discovery, commissioning, and control of each sensor
Dual CoreSync IO connectors	Quick and easy connection to all CoreSync Devices
Hot Plug Prevention	MicroFit Mate-First Break-Last connector reduces the potential of hot plugging
UL Listed	Safe operation and industry standard compliance

SPECIFICATIONS

Electrical

Input Power:

CoreSync Bus (42V-57VDC)

Power:

<2W

Sensors Range/Tolerance

CO2: 30ppm ±3%

PM1.0/2.5:

0~100µg/m3: ±10µg/m³

101~500µg/m3: ±10% reading

PM10: 0~100µg/m3: ±25µg/m³

101~500µg/m3: ±25% reading

TVOC Index:

1 - 500 ±15%

Temp: ± 0.2°C

RH: ± 1.8% RH

Product Safety

Mate First Break Last

Mechanical

Length: 85.86mm (3.7 in.)

Height: 94.87mm (3.4 in.)

Depth: 30.8mm (1.2 in.)

Mounting:

Single gang junction box (N. America)

86-Type junction box (Europe)

Environmental

Operating Temp Range:

0° to 50°C (32° to 122°F)

Storage Temperature:

-20° to 80°C (-4° to 176°F)

Relative Humidity:

10-80% Non-Condensing

Environmental Rating:

Indoor

Commercial Standards

UL 60730-1 (safety)

CSA c22.2#14-05 (safety)

CE - IEC 60730-1

FCC: Class A

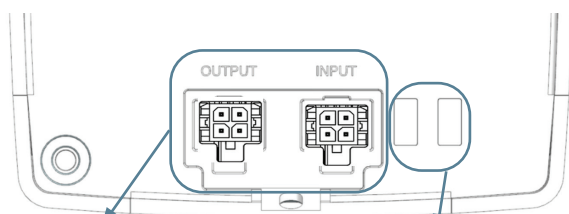
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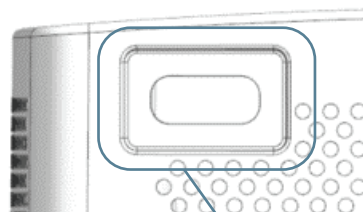
CONNECTION INTERFACE

Connection	Connection Specification
CoreSync IO	4-Pin Micro-Fit 3.0 Connector, <i>CoreSync Harness</i>
USB C Port	<i>For Future Use</i>
DIP Switches	<i>For Future Use</i>



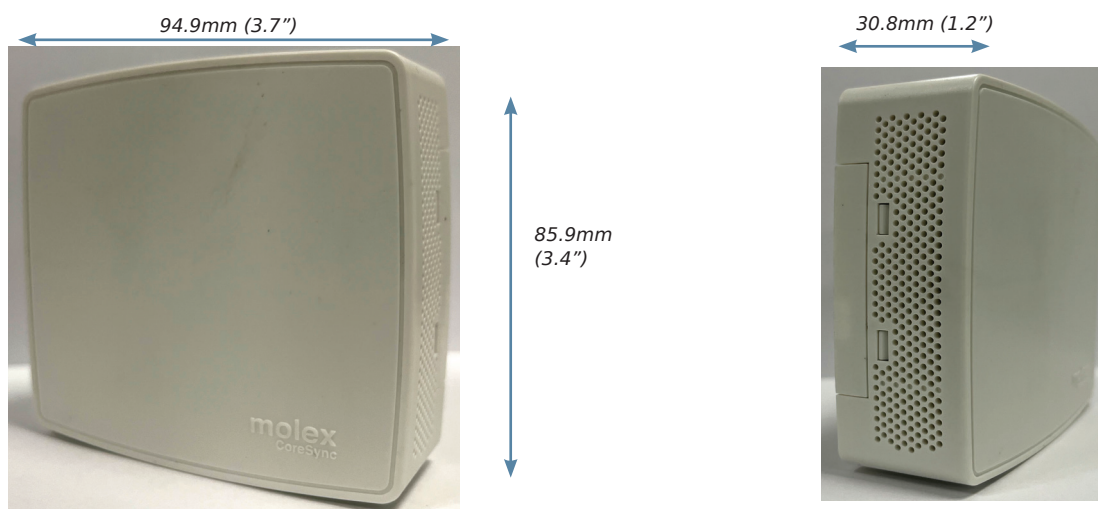
4-pin Micro Fit 3.0 Connector
for CoreSync Bus IO
42-57 VDC + RS485 Data Line

DIP Switches
(for future use)



Mini-USB (for
future use)

DIMENSIONS

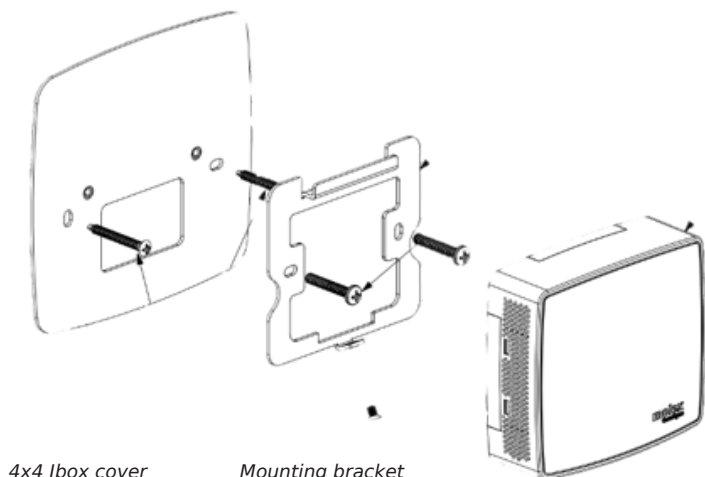


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MOUNTING



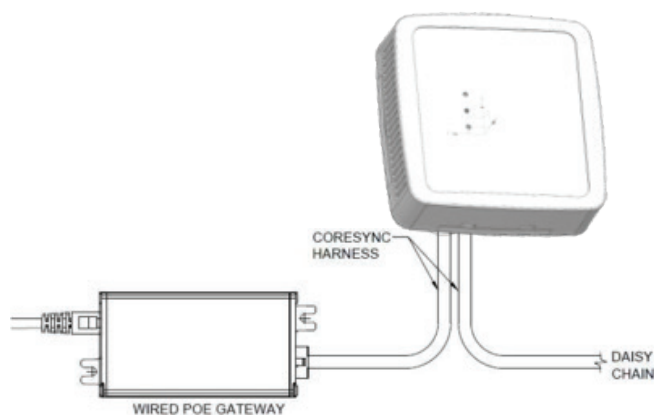
4x4 Jbox cover
(N. America only)

Mounting bracket
(standard for 86-type
jbox)



Screw after mounting to
lock

WIRING DIAGRAM



ORDERING INFORMATION

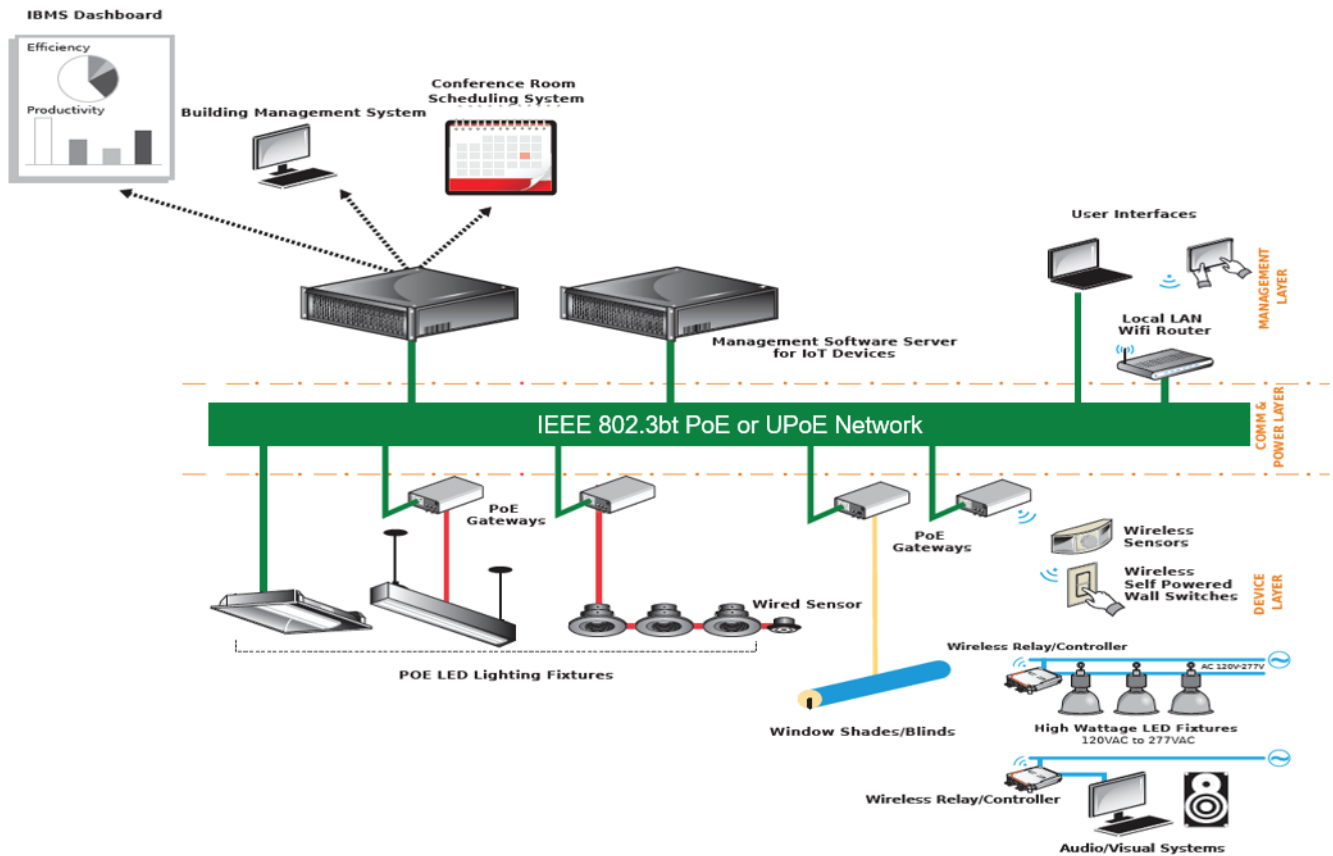
Order No.	Description
1820894000	CoreSync Air Quality Monitor
1820894001	CoreSync Air Quality Monitor NA

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TYPICAL APPLICATION



DAISY-CHAINING

Each CoreSync Daisy-Chain device is powered and physically connected by the Molex CoreSync PoE Gateway with a rugged and reliable Molex CoreSync harness cable using a Molex Micro-Fit[†] 4-pin connection. If the power requirement at the input of the Gateway is below 51W for UPoE and below 71.3W for 802.3bt 90W standard, a single Molex CoreSync PoE Gateway can power and control multiple devices in a Daisy-Chain configuration, with the easy-to-use input and output connector scheme.



For further details please refer to the user guide for this product.

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