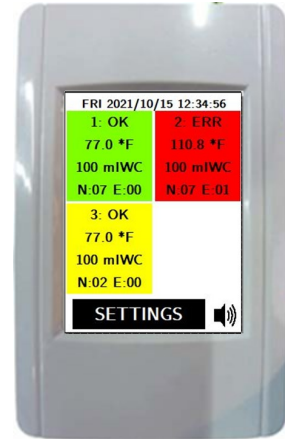


# AirCare Automation EOS1101 — Sensor Monitor

AirCare Automation's **EOS 1101** is a compact, field configurable **2.8" Color Touchscreen** Console that has the ability to monitor 6 different types of sensors in each zone. The parameters that can be monitored are pressure, temperature, humidity, carbon dioxide(CO<sub>2</sub>), volatile organic compounds (VOCs), and particulate matter (PM2.5).

The size of a light switch, it expands up to **4 Room/Zones** and **8 DSMs**. This 2.8" color, high-resolution TFT screen is easily wall-mounted with an external panel box or flush mounted into your wall using a standard electrical single-gang box. Every EOS1101 comes with an EOS PCM to provide power to the touchscreen and communication to the sensors. The EOS PCM makes installation a true plug and play solution with the touchscreen.



## Main Functions

- Touch Capable Icons
- Menu Driven configuration options
- Monitor and alarm 6 different sensors
- Password Protected Admin or View only mode
- Error Logging
- Supports 3 protocols to BMS
  - ⇒ MODBUS TCP/IP
  - ⇒ BACnet MS/TP\*
  - ⇒ BACnet IP\*

*\*Requires ACGW007-EOS gateway to provide BACnet protocols*

## Features

- Compact and fits in a single gang junction box
- 2.8" Color touchscreen
- Supports up to 6 different sensors per zone
- Supports up to 4 Zones
- Built in Buzzer for alarming



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# AirCare Automation EOS1101 — Sensor Monitor

## Main Functions

Room Control Up to 4 Rooms

User Interface Color Touchscreen

Password Protection Yes, Admin and View modes available

Communication Protocol Modbus RTU, RS485 2 Wire for FFU Control  
Modbus TCP/IP, BACnet IP/MSTP\*  
*\*requires ACGW-EOS1301 gateway*

## Display

Type LCD 2.8 TFT  
Resolution 240x320x16

Backlight Life 20,000 Hours

Brightness 160cd/m2

Touch Panel Yes

## Environmental

Operating Temperature -20 ~ + 70°C

Storage Temperature -30 ~ + 80°C

Humidity 10 ~ 90% RH  
Non-condensing

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## Features

Zone Control Up to 4 Zones

Alarm Buzzer, Color-coded icon, and flashing screen

Date/Time Real Time Clock

Event Log Logs up to 2560 Events  
Ex. Communication Error or Changes in Setup to console

## Mechanical

Touchscreen Dimensions mm and inches 118mm x 76mm x 32mm  
4.65" x 2.95" x 1.27"

Installation of touchscreen Wall Mounting

Ingress Protection Rating Front Panel: IP40

## Power

Consumption of touchscreen 1.5W

EOS PCM or PCMGW 100-240 VAC, .9A 50/60Hz

Touchscreen +12 ~ 48 VDC

## HMI

Buzzer Yes

## Ethernet

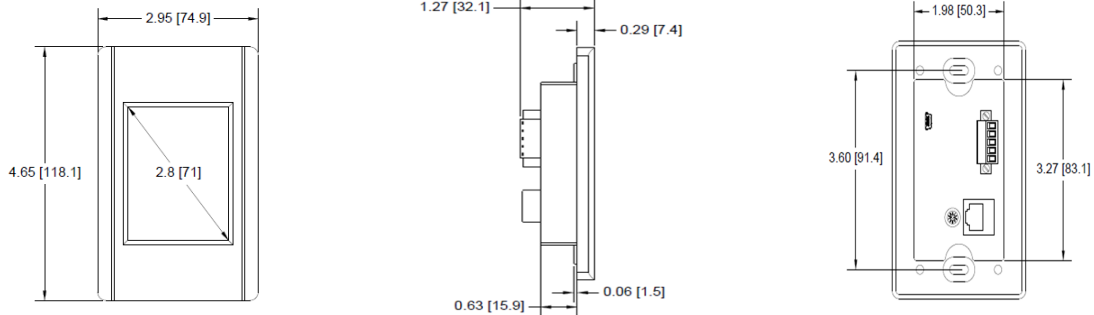
Ports RJ-45 x 1, 10/100 Base – Tx

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# AirCare Automation EOS1101 — Sensor Monitor

## EOS1300 Dimensions



## EOS Power Communication Module (EOS PCM)

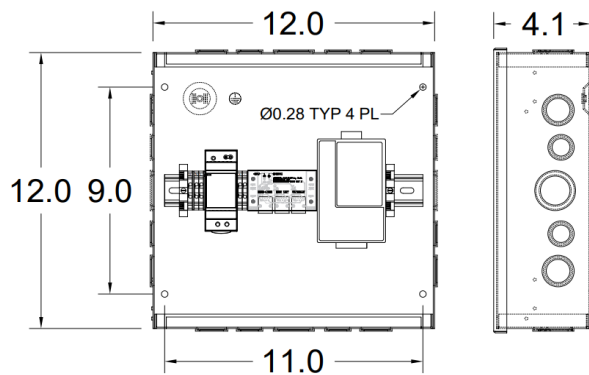
- Provides power to the EOS and DSMs
- Provides communication to the EOS Daisy Chain through the Hub board included
- High Voltage is wired into box and stepped down using Switch Mode Power Supply
- AC Power Requirements
  - ⇒ 100-240 VAC, .9A 50/60Hz
- EOS PCM provides 24VDC, 1.5A for EOS and DSMs
- EOS PCM comes in two configurations
  - ⇒ EOS PCM standalone system
  - ⇒ EOS PCM-GW includes ACGW-EOS1101 gateway for BACnet IP or MS/TP integration

## Order Information

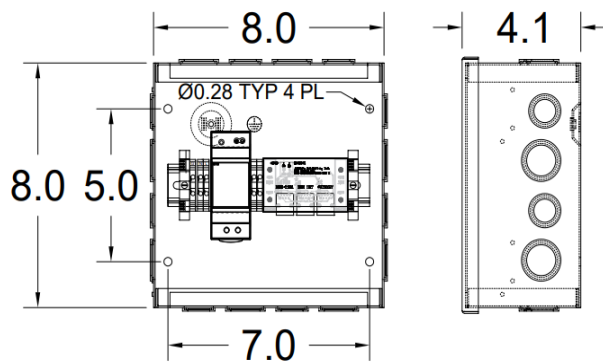
| Part no.   | Parts Included | Description                 |
|------------|----------------|-----------------------------|
| EOS1101    | EOS1100        | 2.8" Touchscreen            |
|            | EOS PCM        | Power/Communication Box for |
| EOS1101-GW | EOS1100        | 2.8" Touchscreen            |
|            | EOS PCM-GW     | Power/Communication Box for |

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## EOS PCM-GW Dimensions



## EOS PCM Dimensions



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# AirCare Automation EOS1101 — Sensor Monitor

AirCare Automation's Distributed Sensor Module – DSM\* is a network accessible (MODBUS RTU) module that can connect to the EOS1300 and provide environmental monitoring for cleanroom system without the complicated centralized panel box builds provided today.

## DSMs

The EOS1301 can support one DSMS and one DSME per zone up to 4 zones. This allows a highly configurable sensor array within any operational environment.

## DSM [S<sup>1</sup>] – [TR<sup>2</sup>] [P<sup>2</sup>] [ ] – [N<sup>3</sup>]

*Example part number: DSMSTRPN; Standard Model, Temperature and Humidity Sensor, Pressure Sensor, NIST Certification*

### [1]

| Model |               |
|-------|---------------|
| S     | Standard (2a) |
| E     | Enhanced (2b) |

### [2a]

| Sensors for <b>Standard Model</b> |               |                   |
|-----------------------------------|---------------|-------------------|
| TR                                | Temperature   | 32 to 122°F       |
|                                   | Part #ACS2424 | 0 to 50°C         |
|                                   | Humidity      | 0 to 100%         |
| P                                 | Pressure      | -0.2" to .02" IWC |
|                                   | Part #ACS2414 | -50 to 50 Pa      |

### [3]

| NIST Certification       |  |
|--------------------------|--|
| N                        | NIST certified (only available for the Standard sensors) |
| Temperature and Humidity |  |
| Part #ACS2423            |  |
| Pressure                 |  |
| Part #ACS2412            |  |

OR

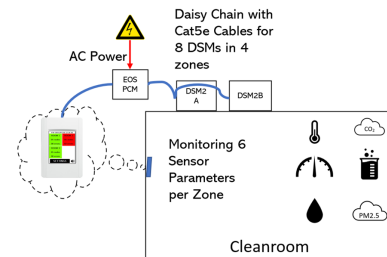
### [2b]

| Sensors for <b>Enhanced Model</b> |   |                           |
|-----------------------------------|---|---------------------------|
| V                                 | Volatile Organic Compounds<br>Part #ACS2431 | 400 to 2000 ppm           |
| C                                 | Carbon Dioxide<br>Part #ACS2432             | 400 to 2000 ppm           |
| M                                 | Particulate Matter<br>Part #ACS2430         | 0 to 500 μ/m <sup>3</sup> |

Photo Illustration of a DSM2



System Diagram



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