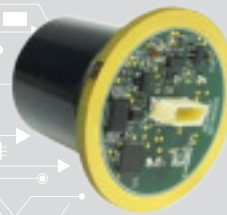


# ESEN-MESN

Multipurpose Environmental  
Sensing Nodes



ES Systems has developed an environmental sensing board system featuring multiple sensors for environmental monitoring that can be utilized in a variety of applications and industries. The ESEN-MESN system integrates pressure, humidity, temperature, TVOC, CO, NO<sub>2</sub>, CO<sub>2</sub> sensors that can be integrated in custom tailored boards that fit each end user's tailored defined mechanical specifications. ESEN-MESN supports both wired and wireless communication enabling optimal connectivity capabilities. The wireless capability enables installation in remote locations with minimal installation cost. ESEN-MESN supports various wireless communication protocols making it easy to integrate in any network infrastructure.



48 Konstantinoupoleos str.  
19441 Koropi - Athens, Greece

**T** +30 216 2000500

**F** +30 216 2000555

**info@esenssys.com**

**www.esenssys.com**





# ESEN-MESN

Multipurpose Environmental  
Sensing Nodes



## Specifications

<b>Supply Voltage</b>	3.3V, 24V
<b>Communication Interface</b>	I <sup>2</sup> C, RS-485 (MODBUS-RTU), WiFi, BLE
<b>Pressure</b>	
<b>Range</b>	0-4 barg
<b>Total Error</b>	±1% FS
<b>Compensating Temperature</b>	0°C ... +60°C
<b>Humidity</b>	
<b>Range</b>	0-100% RH
<b>Accuracy</b>	±2% RH
<b>Temperature</b>	
<b>Range</b>	-40°C ... +125°C
<b>Accuracy</b>	±0.2°C
<b>TVOC</b>	
<b>Range</b>	0 ... 60000ppb
<b>Sensitive to</b>	Acetone, Butylacetate, Cyclohexan, Ethanol, Formaldehyde, Hydrogen, Toluene, Acetone, Butylacetate, Cyclohexan, Ethanol, Formaldehyde, Hydrogen, Toluene
<b>CO</b>	
<b>Range</b>	0 ... 1000ppm
<b>NO<sub>2</sub></b>	
<b>Range</b>	0.05 ... 10ppm
<b>CO<sub>2</sub></b>	
<b>Range</b>	0 ... 2000ppm
<b>Resolution</b>	1ppm
<b>Accuracy</b>	±50ppm + 3% mv.



48 Konstantinoupoleos str.  
19441 Koropi - Athens, Greece

**T** +30 216 2000500

**F** +30 216 2000555

**info@esenssys.com**

**www.esenssys.com**