

ESEN-5000

Multipurpose Environmental
Sensing Nodes



ES Systems has developed an environmental sensing system featuring multiple sensors for environmental monitoring that can be utilized in a variety of applications and industries. The ESEN-5000 system integrates pressure, humidity, temperature, luminosity, accelerometer and magnetometer sensors that can be integrated in custom tailored designs that fit each end-user's tailored defined specifications. ESEN-5000 supports wireless communication enabling optimal connectivity capabilities. The wireless capability enables installation in remote locations with minimal installation cost. ESEN-5000 supports various wireless communication protocols making it easy to integrate in any network infrastructure.



62, I. Metaxa str.
19441 Koropi - Athens, Greece

T +30 216 2000500

F +30 216 2000555

info@esenssys.com

www.esenssys.com





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Specifications



Supply Voltage	3.7V (VBAT) / USB POWERED(5V)
Communication Interface	WiFi, BLE
Pressure	
Range	300 to 1100hPa
Total Error	± 0.5%FS
Compensating Temperature	-20°C ... +65°C
Humidity	
Range	0-100% RH
Accuracy	±3.5% RH (20 to 80%RH)
Temperature	
Range	+0°C ... +80°C
Accuracy	±1°C
Luminosity	
Range	0 ... 65535lx (±20%)
Magnetometer	
Range	±1000 uT
Sensitivity	0.10 uT
Accelerometer / Gyroscope (3-axis)	
Range	±2g / ±4g / ±8g / ±16g ±250 / ±500 / ±1000 / ±2000 °/s
Resolution	16bit – 10bit depending on FS selection
Initial Calibration Tolerance	±3%



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