

# ESMS-ECM

Equipment Condition  
Monitoring System



ES Systems has developed a complete smart system solution for condition monitoring of industrial equipment. The ESMS-ECM system features synchronous sensor sampling with wireless communication enabling optimal vibration and condition monitoring of equipment. The wireless capability enables installation at remote locations with minimal installation cost. ESMS-ECM supports WiFi and BLE 4.0 wireless protocols allowing installation and communication integration in existing wireless infrastructures.

ESMS-ECM is the first condition monitoring system worldwide that supports wireless and synchronous multichannel data sampling, a necessary feature for vibration monitoring and frequency pattern analysis. ESMS-ECM can integrate any kind of sensor that communicates with 0-10V, 4-20mA, MODBUS-RTU, RS-232, Digital I/O, I<sup>2</sup>C.

The data collected from the ESMS-ECM system are transferred to the cloud or to secure servers where end users can execute their predictive maintenance algorithms.



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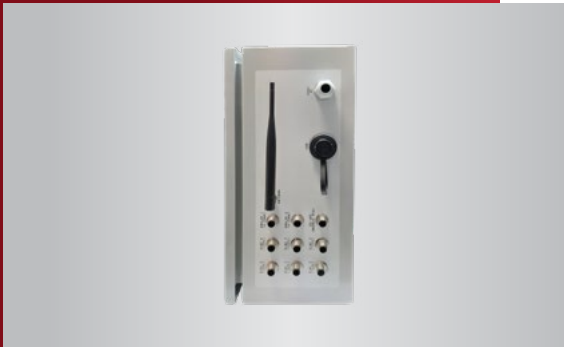
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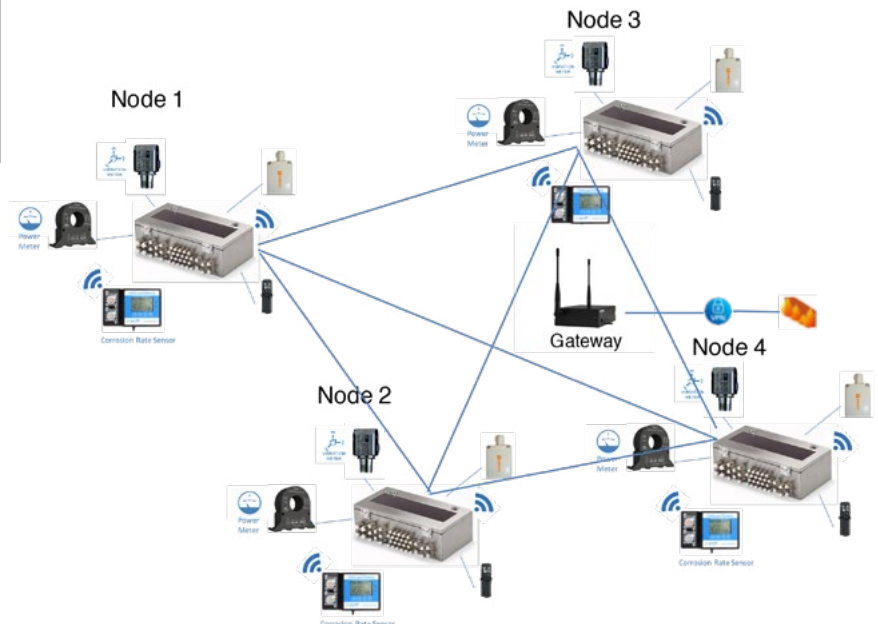
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## Specifications

<b>Digital I/Os</b>	4x inputs, 4x outputs (opto-isolated)
<b>Analog Channels</b>	4x inputs 0-3,3V, 4x 4-20mA, 12x inputs IEPE
<b>Material</b>	Electrostatic Painted Metal
<b>Mounting</b>	Wall or Ceiling Mounting (4 x bolts size M8)
<b>Digital Communication Interfaces</b>	RS-232 (opto-isolated), RS-485 (MODBUS-RTU), I <sup>2</sup> C (opto-isolated), USB
<b>Wireless Communications</b>	WiFi, BLE 4.0
<b>Power Supply</b>	220VAC
<b>IP</b>	65
<b>Weight</b>	6Kgr
<b>Mechanical Envelope (l x w x h)</b>	38x25x18 cm
<b>Operating Temperature</b>	-40°C...+85°C

## Network Architecture



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