

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, I²C.

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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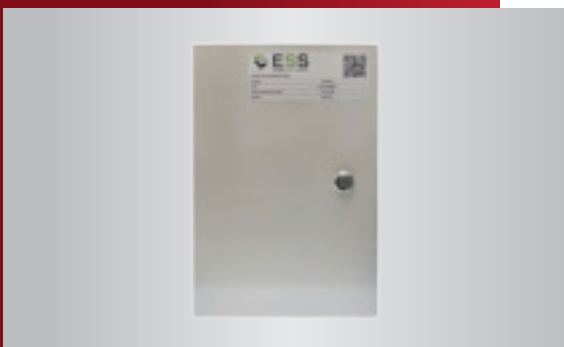
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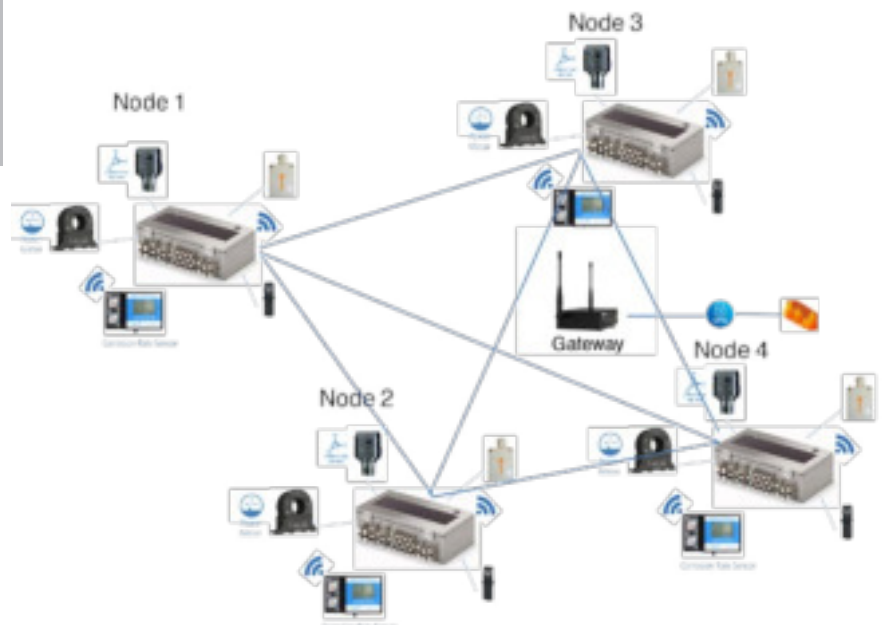
Equipment Condition
Monitoring System



Specifications

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

Network Architecture



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