Product Overview: Condition Monitoring Node

Challenge

Knowing the health of your machines in real time is critical to avoiding costly un-planned downtime. However, detecting small changes in machine performance can be difficult without the right tools. The CM Node monitors the three critical indicators of machine health: vibration, temperature, and current.

Banner Wireless Value

- **Easy to Deploy**: Preconfigured and prewired to integrate with a Banner VT1 Vibration and Temperature sensor and one of the included current transformers
- **Compatibility**: Compatible with the Banner Wireless Solutions Kit for Vibration Monitoring (v2.1 or newer)
- **Simple and Powerful**: Monitor the three key indicators of machine health by measuring vibration, temperature, and current with a single device
- **Peel and Stick**: Battery-powered Nodes connected to vibration sensors and current transformers are easy to deploy in the most rugged and hard-to-reach locations
- **Reduce Complexity**: Machine or process reconfiguration made easier; great for retrofit applications
- **Easy Configuration**: DIP switches for user configuration
- **Industrial Internet of Things**: Pair with a DXM Gateway for remote monitoring through a local network or the Cloud





Includes two current transformers (20 A and 150 A).

Banner Wireless Condition Monitoring (CM) Node

Monitor vibration, temperature, and current in one easy-to-use device

- Performance Node with a Euro-style connector for use with a Banner VT1 Vibration and Temperature sensor (sold separately) and one-meter twisted pair cable for use with a current transformer
- 20 A and 150 A split core current transformers included
- DIP switch configurable
- Compatible with the Vibrations Solutions Kit
- Improved internal antenna for extended wireless range
- 6+ year battery life

Key Applications

- **Rotating asset health**
- **Bearing health**
- **Pump cavitation**
- **Rotor unbalance**
- **Winding failure**
- **Motor load**
- **Compressor failure**
- **Energy use monitoring**
- **On/off state**

CM1L Node Models

Model Number	DXM Gateway	Additional Notes
DX80N9X1W-CM1L	900 MHz Performance	Pre-wired Euro-style connector for use with any Banner 1-Wire Serial Vibration Sensor (sold separately). Pre-wired one-meter twisted pair cable reports true RMS current (20 A and 150 A current transformers included with Node).
DX80N2X1W-CM1L	2.4 GHz Performance	

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