

Vireless Solutions Kits: Vibration

- Easily monitor machine vibration on any rotating asset
 - Reduce downtime and plan needed maintenance
 - Efficiently manage replacement parts
 - Track machine faults and warranty
- Fully integrated solution for easy setup
 - Setup wireless network using HMI interface
 - No programming needed
- Visualize data locally on the HMI, send it to the network, or view it remotely via the cloud

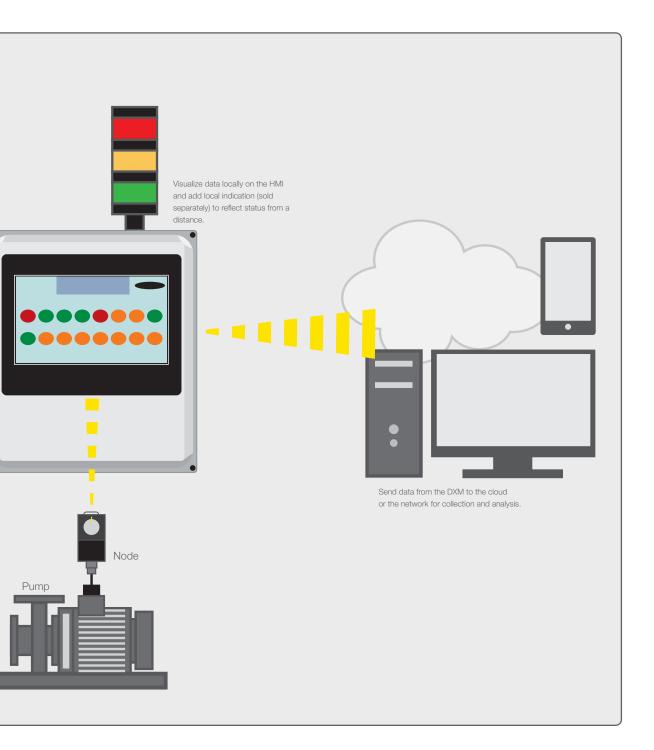




Wireless Solutions Kits: Vibration







Data Collection

- Samples every 5 minutes of RMS velocity and high frequency acceleration for X and Z axes
- Determines whether the asset is running, and only uses data when it is running
- Creates baseline over first 300 running samples
- Warning and alarm thresholds are automatically created for each vibration characteristic during baseline period
- Thresholds are set for both acute faults (quickly occurring) and chronic faults (long term deterioration)

HMI shows dashboard with a "Check Engine Light" for each asset



Touch an asset icon to view raw data, baselines and thresholds





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* Available with VIBE model only

Vibration and Temperature Sensor

Models	Description
QM42VT1	Vibration and temperature sensor with 1-wire serial interface

Supply Voltage 3.6 to 5.5 V dc or 10 to 24 V dc

Current Active comms:

QM42VT1: 11.9 mA at 5.5 V dc

Indicators Green flashing: Power ON Amber flicker: Serial Tx

Vibration Mounted base resonance:

5.5 kHz nominal Measuring range:

0-46 mm/sec or 0-1.8 in/sec RMS Frequency Range: 10 - 1000 Hz Accuracy: ± 10% @25 °C

Temperature Measuring range:

-40 to +105 °C (-40 to +221 °F)

Resolution: 0.1 °C Accuracy: ±3 °C

Environmental Rating NEMA 6P, IEC IP67

Shock 400G

 Cable
 Integral 5-pin M12/Euro-style

 Connection
 male quick disconnect (QD)



42 mm

12.7 mm

42 mm

Nodes with 1-Wire Serial Interface

	Models	Description	Frequency
	DX80N9Q45U	Q45 Wireless Node	900 MHz
	DX80N2Q45U	with integrated battery	2.4 GHz
	DX80N9Q45VT	Q45 Vibration and	900 MHz
	DX80N2Q45VT	Temperature Node	2.4 GHz
	DX80N9X1S-P6	1-wire Serial Performance Node	900 MHz
	DX80N2X1S-P6	with integrated battery	2.4 GHz
	DX80N9X6S-P6	1-wire Serial Performance Node	
	DX80N2X6S-P6	10 to 30 V dc	
	DX80N9X1W-P6L	1-wire Serial Performance Node	900 MHz
	DX80N2X1W-P6L	with integrated battery	2.4 GHz



Brackets



BWA-BK-005



BWA-BK-008



BWA-BK-001 (magnet)





2.44 m (8 ft)