

## Challenge

Identifying equipment problems before a failure happens can be a challenge. Rotating assets are often located in remote and hard to reach places. The Q45VA combines Banner’s VT1 vibration and temperature sensors with a Q45VTP wireless node in an all-in-one, easy to deploy package. This completely wireless device, with its compact housing, is easy to order and easy to install, so that you can monitor the health of your equipment no matter where it is located in your facility.

## Banner Wireless Value

- **Easy to deploy**—Easy to use rugged device that can easily be mounted to equipment
- **Compatibility**—Compatible with the Banner Wireless Solutions Kit for Vibration Monitoring
- **Simple & powerful**—Monitor machine health by measuring various vibration characteristics **and** temperature with a single device
- **Peel & stick**—Vibration and temperature sensors, combined with a wireless node and a battery power supply makes it 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



## Banner Q45VA All-in-One Vibration & Temperature

Monitor vibration and temperature with one easy to use device

- ✓ Detects vibration characteristics on two axes (radial and axial), such as RMS velocity, high frequency acceleration, peak acceleration, peak velocity component frequency, etc.
- ✓ Use with a DXM wireless controller and machine learning algorithm to automatically establish baselines and set thresholds
- ✓ DIP switch configurable
- ✓ Compatible with the Vibrations Solutions Kit
- ✓ 2+ year battery life at default sample rates

## Key Monitoring Applications

- Rotating asset health
- Bearing health
- Pump cavitation
- Rotor unbalance
- Misaligned components
- Loose/worn components
- Over temperature condition

## CM Node Models

Model Number	Frequency	Additional Notes
DX80N9Q45VA	900MHz Performance	Vibration and temperature detection
DX80N2Q45VA	2.4GHz Performance	