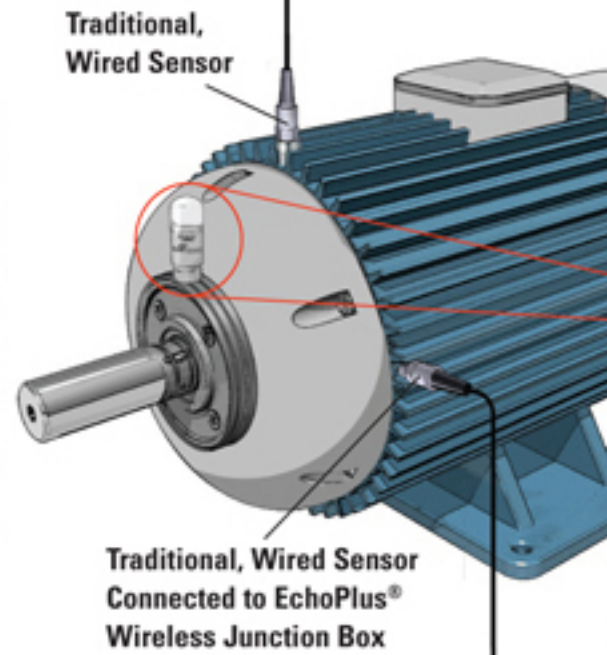


Direct point to point transmission typical distance = 1/3 to 1/2 mile radius

Actual distances can vary widely based on conditions

Receiver has DHCP or static IP addressing

Monitored Machinery



Typical Configuration 1

EchoPlus® Wireless Junction Box

Process 24 VDC power or 6-13 VDC battery power

Optional high gain antenna

Echo® Receiver

Typical Configuration 2

Echo® Wireless Vibration Sensors

100-240 VAC to 12 VDC Universal Power Supply

Included antenna
TCP/IP

Echo® Receiver

Vibration Analysis Using Data Collector

EchoPlus® Wireless Junction Box & Echo® Wireless Vibration Sensor

Data collector connects directly to:

- EchoPlus® Wireless Junction Box via standard BNC connector

Wireless transmission stops while analog acceleration output is acquired via BNC. After handheld data collection, device returns to regular transmission schedule.

Transmissions temporarily paused during handheld data collection

Ethernet TCP/IP

Echo® Monitoring Software

Echo® Data Client Service

- Collects transmission
- Formats data
- Stores in database
- Generates alarm email
- With optional integrated Modbus® TCP/ICP Server interface

Echo® Data Presentation SW

- Trend plots
- Status
- Alarms
- Reports
- Echo® sensor configuration utilities

Echo® Sensor Data

MS SQL Server 2005

Echo® Data Presentation SW

Access to SQL Database through internet with LAN

- Trend plots
- Status
- Alarms
- Reports
- Sensor configuration

All monitor stations, either through LAN or remote access, have all the same functionality as server system, but do not store data.

Echo® Data Presentation SW

Access to SQL Database through internet with VPN

- Trend plots
- Status
- Alarms
- Reports
- Sensor configuration