



Notes:

1. Metrix transmitters provide a 4-20 mA output proportional to vibration.
2. Datawatch IX uses Transmitters and provides local display.
3. A transducer can be a sensor or a transmitter.

Reciprocating Machines

Affects \geq 10%
of Plant Output

Affects $<$ 10%
of Plant Output

Vibration Switch
(Protection), Walk
Around Data
Collection
(Monitoring). Use
Datawatch if difficult
/ dangerous to get to.

- 1 Accelerometer on each Crosshead
- 2 Accelerometers or 2 Velocity Sensors on each end of the Crank Case
- 1 (minimum, if required) Turbocharger Velocity Sensor - cold side
- 1 Proximity Probe rotation marker
- 1 Proximity Probe Rod Drop at each compressor rod, if required
- 1 Valve Temperature Sensor (RTD) at each compressor valve, if required

- 1 Impact Transmitter on each Crosshead
- 2 Impact Transmitters on each Crank Case Casing (Top)
- 2 Velocity Transmitters on each end of the Crank Case
- 1 (minimum, if required) Turbocharger Velocity Transmitter - cold side
- 1 Proximity Probe rotation marker
- 1 Proximity Probe Rod Drop at each compressor rod, if required
- 1 Valve Temperature Sensor (RTD) at each compressor valve, if required

Notes:

1. Metrix transmitters provide a 4-20 mA output proportional to vibration or impacts.
2. Datawatch IX uses Transmitters and provides local display.

VMS/CMS uses Sensors,
PLCs/Datawatch use Transmitters
(Depends on ROI), connect to
Plant Information System

PLCs/Datawatch use
Transmitters (Depends on
ROI), connect to Plant
Information System