

3-CHANNEL VERSATILE VIBRATION & PROCESS MONITOR

USES

- Permanent **Vibration or other AC input** monitoring of rotating machinery.
- Permanent **DC process parameter input** monitoring such as temperature, pressure, etc.

FEATURES

General

- Alarm Level Detector with adjustable level (2 to 99%) and delay (0.2 to 100 seconds). Featuring Alarm Hold/Reset/Inhibit functions and Alarm Relay output with zero potential make and break contacts.
- Time delay circuit to eliminate false alarms.
- Weather- and seawaterproof IP67 housing ensures many years of trouble-free operation.
- A 3 1/3 digit Service Display and a rotary switch for toggling between the reading of the parameters: Alarm level, Delay time and present signal level.
- Automatic setting for mains supply voltage over the range from 90 - 264 Volt AC 47 - 63 Hz.
- Cables enter and leave PCH1014 via EMC correct and IP67 waterproof cable glands. Cables are terminated in robust spring loaded terminals.
- Equipped with an EMI/RFI barrier to comply with EMC regulations for industrial environment.
- Allows signal monitoring on 3 channels with constant surveillance of vibration level on each channel.

Vibration or other AC input (channel 1, 2 and 3)

- Choice of DeltaTron[®] /ICP[®](CCLD), LineDrive (CVLD), charge or voltage input system, allowing use of a wide range of commercially available vibration or other AC output transducers: accelerometers, velocity pick-ups, displacement probes, microphones with preamplifiers, hydrophones etc.
- RMS signal rectifier (optionally, peak to peak, max peak or spike energy).
- Provides unconditioned and conditioned dynamic signal outputs for narrow band FFT analysis.
- Choice of vibration parameter per channel: acceleration, velocity or displacement.
- Frequency range from 10Hz to 1kHz or customer specified.

Process parameter input (channel 2 and 3 only)

- Wide range of input modules for static or slow varying process parameter transducers or transmitters with DC current & DC voltage outputs.
- Input for 2 or 3 wire PT100 temperature transmitter.
- Customer specified measuring range corresponding to DC output 0-5V or 0/4-20mA.
- Current limited 24V DC output power supply for transducer.
- Alarm Relay outputs for either minimum or maximum level detection.
- Detection and output via System Error Relay when a DC transducer input is out of the measuring range.

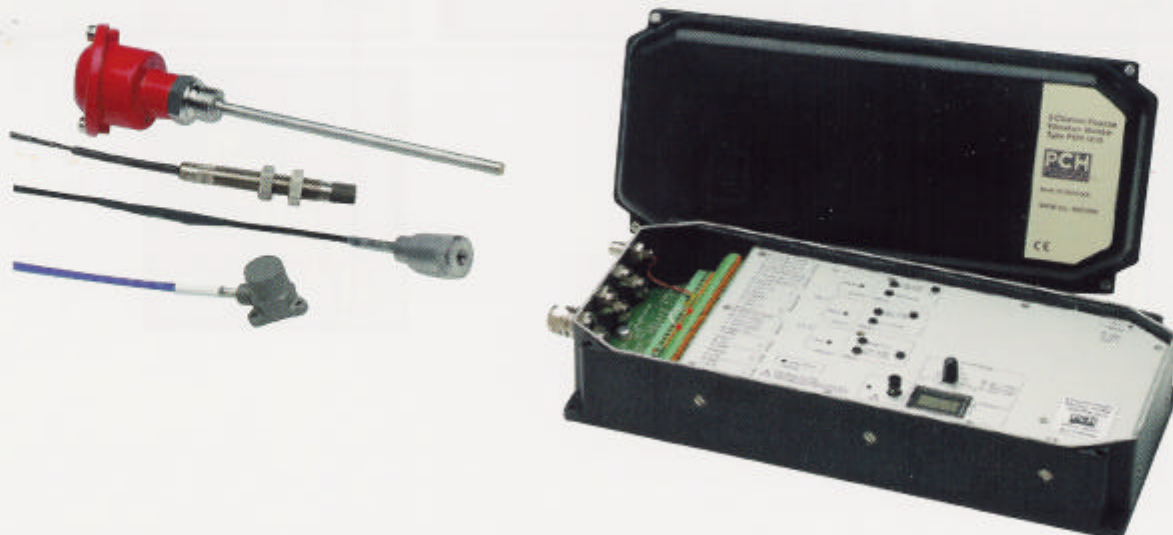


Fig 1. The PCH 1014 Vibration & Process Monitor