



Telemetry Systems for ICP Type Transducers

Single channel telemetry transmitter with signal conditioning for direct connection of ICP type transducers

An advanced concept for the survey of highly dynamic processes on rotating or moving machinery is now available from datatel. A new generation of single channel telemetry transmitters with advanced performance was developed to meet the demands of ICP type transducers. Typical applications are:

- Vibration measurement on railroad wheel-sets
- Torsional vibration measurement on crankshafts of piston engines or on drive trains
- Vibration measurement on paper machines
- Vibration measurement on aircraft propellers
- Vibration measurement on milling machines

The miniaturized single channel transmitter features very high signal bandwidth combined with excellent measurement accuracy and signal quality to transfer dynamic data from the rotating specimen to the stationary receiver unit. The measuring range is adjustable to meet the sensitivity required by the application.

The special signal conditioning electronics generate up to 28V DC and a constant current up to 4mA to power the transducer. However, due to an integrated DC/DC-Converter the telemetry transmitter can be powered with 7 to 10V only. This is advantageous especially for battery powered applications. Alternatively a maintenance-free inductive power option is available to supply the telemetry transmitter.

- State-of-the-art measurement of Acceleration, Vibration and Shock with ICP type transducers
- Wireless data transmission
- Direct connection of ICP type transducers
- Suitable for highly dynamic measurements
- Very high signal bandwidth 5Hz to 30kHz (-3dB) or 5Hz to 50kHz (-3dB)
- High accuracy and signal quality
- Adjustable measuring range
- Inductive power supply or battery powered
- Modular, flexible design
- Single- and multi-channel systems available