

About us...

Hansford Sensors Ltd. specialises in the design and manufacture of an extensive range of vibration sensors, associated monitoring systems and accessories.

Our product range includes vibration sensors or industrial accelerometers with either AC outputs for use with data collectors, or 4-20mA outputs for direct use with PLCs for the important task of monitoring vibration levels of plant and machinery in a predictive maintenance role across most industries.

Intrinsically safe AC and 4-20mA versions are now available with ATEX and IEC Ex certification for approved use in Group I (Mining) and Group II (Petrochemical).

We also supply multi-sensor switch boxes, vibration sensor modules, portable vibration meters, accessories for sensors, vibration condition monitoring protection systems and custom-built vibration sensors.

Hansford Sensors is committed to providing our customers with quality products and services and recognises the importance of constantly striving to exceed expectations. We focus on building good working relationships with our customers, suppliers and employees as we believe this is key to the long-term success of the company. Hansford Sensors Ltd. have secured their ISO 9001:2000 certification with LRQA.

Warranty - All Hansford Sensors products are covered by a no-quibble three year warranty.

Vibration Sensors - Top entry, AC versions - Series HS-100



Vibration Sensors - Side entry, AC versions - Series HS-100S



AC, 4-20mA and Dual outputs

Vibration Sensors - Top entry, 4-20mA versions - Series HS-420

The HS-420 Series of industrial accelerometers are piezoelectric devices offering a 4-20mA output for PLC/DCS/BMS connection.

They are robustly constructed with a welded stainless steel housing, have a choice of top entry cable or connector with various mechanical threads and studs arrangements for fixing of the sensor.

They typically operate over a temperature range of -25 to 90°C and cover a frequency response over 2 Hz to 10 kHz.









HS-421 Series S/No. 448219

The HS-421 Series of industrial accelerometers are piezoelectric devices offering a dual output of 4-20mA output proportional to velocity and an AC 'g' for data collection.

The HS-420T Series of industrial accelerometers offer a dual output measuring both vibration and temperature.

The HS-422 Series of industrial accelerometers offer a 4-20mA output proportional to 'g'.

Vibration Sensors - Other versions



The HS-104 Series

3 wire, 100mV/g industrial accelerometers

The HS-105 Series

High Temperature industrial accelerometers

The HS-130 Series

Compact AC industrial accelerometers

The HS-140 Series

Charge Output industrial accelerometers

The HS-160 Series

Velocity Output industrial accelerometers

The HS-170 Series

Slim Profile industrial accelerometers

Detailed information datasheets for each sensor are available for download at www.hansfordsensors.com

ATEX approved Sensors...

Vibration Sensors - Intrinsically safe, AC versions - Series HS-1001



The HS-100I and HS-100SI Series of industrial accelerometers are AC versions which are ATEX and IEC Ex certified for use in Group I and Group II potentially explosive environments. They typically operate over a temperature range of -55 to 140°C and cover a frequency response over 2 Hz to 10 kHz.

The **HS-105I Series** of industrial accelerometers can operate in high temperature conditions up to 250° C and have an inline charge amplifier which is positioned outside the high temperature environment.



Vibration Sensors - 4-20mA versions - Series HS-4201



Detailed information datasheets for each sensor are available for download at www.hansfordsensors.com





Monitoring the sensor outputs...

Connection & Switch Boxes - Series HS-SE/CE/BE



We manufacture a range of Switch and Connection Boxes for use with our comprehensive series of industrial accelerometers.

HS-SE Series - A cost-effective switching unit capable of accepting 2 to 150 accelerometers.

Available in a variety of different housings, including stainless steel and GRP.

The HS-BE Series offers a low-cost option for Sensor Connection Boxes. Simple-to-use, the HS-BE boxes are ideal for connecting up to 4 ways, via the BNC, with all commercially available portable data collector to take vibration readings.





Sensor Modules - Modular Protection Systems - Series HS-500





Sensor - monitor, connect & fix...

Vibration/Temperature Monitoring Kits



HS-620 & HS-630

Vibration/Temperature Meters

The recently launched **HS-620** Vibration Monitoring Kit is a portable, battery-operated instrument, and comes with a hand-held probe making it an ideal entry-level unit for use around the factory.

The new **HS-630** has all the facilities of the HS-620 with the addition of a non-contact temperature measuring sensor aided by a laser locator beam.

It is designed for maintenance engineers to use to monitor vibration levels and spot temperature on important plant and machinery.

Kit includes Vibration/Temperature Meter, Hand-held Probe, Cable, Magnetic Mount, Mains Charger, In-car Charger, Instruction Manual.



Sensor Cable - Cable assemblies, Connection brackets



To help you make connection with your sensors to all commercially available data collectors, we supply a wide choice of cable assemblies, mating connectors, connection brackets, etc.





Sensor Fixing - threaded and magnetic studs

info@kmo-turbo.de













kmo turbo GmbH Friedrichstr. 59 88045 Friedichshafen Germany

+49 7541 95289-0

+49 7541 95289-20



Ref: TS094 Iss02