

## SIX NEW RANGES OF MONITRAN GENERAL PURPOSE SENSORS FOR VIBRATION ANALYSIS FROM INSTROTECH



Monitran, a world leader in the development and manufacture of transducers for the measurement of vibration and displacement, has launched six new ranges of general purpose sensors, available from Instrotech, a Comtest Group Company.

The advantages of high accuracy, quick recovery from shock loading, and high immunity from electrical noise make these new sensors fit-for-purpose for a variety of applications within several industrial sectors.

All of these new Monitran sensors are supplied as top- or side-entry and with integral cables and connectors. Submersible and intrinsically safe versions are also available.

Devices in a new 2200 range are ideal for vibration analysis. As standard, they operate between  $\pm 80g$ , have a rapid response to shock loading and can withstand forces in excess of 10,000g. The sensors have isolated AC outputs with sensitivities of 100V/g, with alternate sensitivities available on request. In addition, the devices offer good bias voltage stability with typical drift no more than 3mV/° with a bias voltage of 11.6V.

A second new range, the 2300 series, comprises of dual output devices. Here, sensors replicate AC output for vibration analysis of the 2200 range, but also have an output proportional to temperature (at 10mV/°C, a *de facto* sensitivity for many data loggers).

For monitoring velocity, Monitran's third new range, the 2285 series, features devices with output DC outputs (4-20mA) proportional to RMS velocity, with outputs proportional to peak velocity available on request. These are ideal for providing machine/plant protection by allowing monitored velocity (i.e. speed of vibration) levels to be included within a condition-based predictive maintenance strategy. The maximum sensitivity is typically 0 to 100mm/s. By incorporating full internal screening within the 2285 range, potential earth loop problems are eliminated and installation is simplified.

The fourth range of sensors is the Monitran 2287 series offering the same features as the 2285 series but with the DC output proportional to acceleration as apposed to velocity. RMS is standard but with peak as an option.

The fifth and sixth ranges, series 2385 and 2387, add secondary outputs for temperature (again output is at 10mV/°C) to the 2285 and 2287 ranges.

Released for: **INSTROTECH (PTY) LTD, A COMTEST GROUP COMPANY**

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