

Istec special products

Istec has developed tools to calibrate sensors and test systems. The use of these tools minimizes human error and contributes to efficient, uniform tests with clear reports.



Protection system verification tools

Frequency generator - IST-101

The 3-channel frequency generator simulates speed signals to verify overspeed protection systems.

This tool no longer requires an actual overspeed situation to verify the functionality of the overspeed protection system. The 3-channel frequency generator allows for testing the complete system logic and safety functions by simulating up to three speed signals in parallel (2oo3). It can be used for partial or full proof tests on a variety of overspeed protection systems.

Probe adapter

Sensors can be included in the loop tests with the IST-101 probe adapter, which injects small magnetic pulses in the speed probes, and therefore enables complete system testing.



Vibration calibrator - IST-300

The vibration calibrator verifies the system logic and safety functions of vibration protection systems.

The IST-300 is capable of simulating signals like axial displacement, acceleration and velocity vibration signals (2oo2 testing). The 2-channel vibration calibrator is compact and easy to use. The tool sends out a pure sine wave with a programmable amplitude, frequency and offset. Signals can either be sent through field wiring or directly to the vibration protection system. The IST-300 is a fast and reliable tool to verify the system logic and safety functions of vibration protection systems.



Eddy current calibrators



Automated probe calibrator – IST-401

The accuracy of eddy current measurement loops is an important part of functional safety testing on vibration protection systems.

The IST-401 verifies the accuracy of eddy current systems and automatically generates a detailed report that includes the accuracy and acceptance of the instrument. It provides an extremely high-resolution data stream of the movement of target material towards the fixed probe. Because the probe calibrator is fully automated, any human interference is eliminated, resulting in the most accurate data.



Manual probe calibrator – IST-420

The IST-420 is a manual alternative to the automated probe calibrator (IST-401) for reliable and accurate testing of eddy current probes.

The IST-420 is an easy-to-use manual probe calibrator. Its portability and cost-effectiveness makes it a good alternative to the automated probe calibrator (IST-401). The manual probe calibrator has a highly accurate micrometre, robust construction for maximum fixation and smart sensor positioning.



Power supply for eddy current probe installation – IST-320

A portable power supply that is used to power eddy current vibration loops during field services. It allows engineers to test and adjust eddy current probes safely when no power is available.



Advanced systems



Portable condition monitoring system – IST-910

The portable condition monitoring system IST-910 (CMS) is specially designed for temporary on-line vibration measurements. The strong housing and convenient carrying straps provide great mobility.

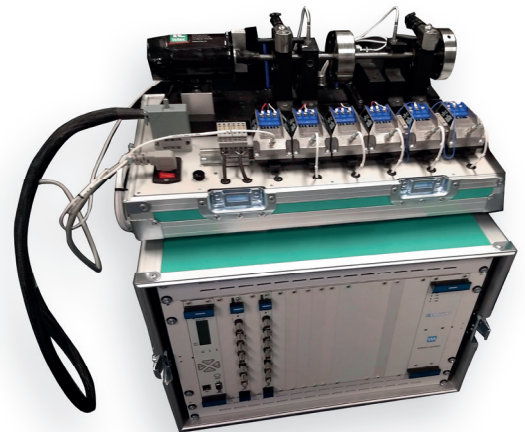
When there is no condition monitoring system implemented in the machine protection system this portable system offers a brand-independent solution. The portable condition monitoring system includes XMV16 and XIO16 analysis cards to supply 32 dynamic and 4 tachometer channels that provide all the necessary interface functions and processing of the measurement signals. The portable system offers the perfect solution for temporary on-line vibrations measurements.



VM600 demo kit – IST-920

An advanced rotor demo kit that demonstrates the functionalities of the VM600 rack-based system for machine vibration protection and condition monitoring.

The rotor demo kit is a miniature setup of an engine driving a shaft, protected by a VM600 system. This makes an ideal tool to demonstrate the functionalities of the VM600 system and for training purposes.



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