

This Specification Data Sheet
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ViSTeC™ Data Collector



The ViSTeC™ data collector/meter provides maintenance personnel with a lightweight (0.38 lb.), easy-to-use, cost-effective tool for condition monitoring of machinery.

The ViSTeC™ measures vibration in units of velocity and acceleration. Measurements can be displayed in either English or Metric units.

Spike Energy measurements can also be taken and expressed in gSE units (acceleration units of Spike Energy).

Spike Energy is a measure of the intensity of energy generated by repetitive transient mechanical impacts.

Spike Energy is used for early detection of surface flaws in rolling-element bearings, metal-to-metal contacts, insufficient bearing lubrication, and process-related problems, such as dry running, cavitation, flow change, and internal recirculation.

In addition to vibration, both temperature and running speed measurements can be acquired and stored.

Storage Capacity

The ViSTeC™ can store and recall up to 25 measurement locations. Data collected after the twenty-fifth measurement location over-writes the existing data one at a time. The first measurement location is the first one to be over-written.

It is possible to manually over-write a specific measurement location by simply selecting the desired location when storing the data. All 25 measurement locations can be cleared with one command.



ViSTeC™

Vibration Speed Temperature Check

ViSTeC™ Measurements

Vibration	gPK
	gSE
	mm/sec (rms)
	ips (PK)
Running Speed	RPM
Temperature	Deg. F
	Deg. C

When collecting vibration measurements, it is possible to collect a gSE overall measurement in addition to the ips (PK), mm/sec (rms), or gPK measurement. This allows 25 vibration measurements and 25 gSE overall measurements to be stored.

Mechanical defects that eventually cause breakdown and unnecessary repair can be detected by periodic vibration checks.

Filter Selections

2 Hz High Pass Filter

10 Hz High Pass Filter

ISO - 10 to 1000 Hz Band Pass Filter

5000 Hz - gSE measurements

**Rockwell
Automation**

ViSTeC™ Technical Specifications

Product Feature	Specifications
Power Supply	Four AAA batteries, 1.5 V Alkaline
Battery Life	12 hours with unit continually collecting data. (typical)
Battery Status Indicator	Upper left hand corner of display shows battery icon when battery capacity is low and batteries need to be replaced.
Battery Conservation	After 30 seconds of non-activity, unit powers itself off to conserve battery power.
Dimensions	8.61 in. x 1.59 in. x 1.52 in. (21.87 cm x 4.04 cm x 3.86 cm)
Weight	0.38 lb (0.17 kg)
Keys of Operation	Three keys: Select key Up arrow key Down arrow key
Viewable Display	2.625 in. x 0.75 in. LCD screen (6cm x 2 cm)
Operating Temperature Range	14 to 122° F (-10 to 50°C)
Storage Temperature Range	-4 to 150° F (-20 to 65°C)
Vibration Measurements	
Transducer	ICP powered accelerometer 50mV/g (default) or 100 mV/g
Acceleration	Available Unit: gPk 50 g's maximum (50 mV/g accel) +/- 0.08 g below 13g's* Available Filters: 2Hz (2Hz to 20 kHz) 10 Hz (10 Hz to 20 kHz)
Velocity	Acceleration integrated to velocity Available Units: ips (pk) or mm/sec (rms) +/- 0.04 ips (1 mm/sec) below 1 ips (22 mm/sec)* Available Filters: 2 Hz (2 Hz to 1 kHz) 10 Hz (10 Hz to 1 kHz) ISO (meets requirements of ISO-2954)
Bearing Condition Monitor	gSE overall 5000 Hz filter
Speed Measurements	3-9999 rpm +/- 0.5% Signal Requirements: Square wave Low level 0 - 1 V High level 4 - 5 V

Note: requires optional tachometer interface cable PN# 45892

ViSTeC™ Technical Specifications

Product Feature	Specifications
Temperature Measurements	-18°C - 260°C (0 - 500°F)* +/- 1°C (+/- 2°F) Available Units: °C or °F <i>Note: Requires optional non-contact temperature sensor PN# 45867</i>
Auto-Detection	Upon power up, the ViSTeC™ determines whether to enter vibration, temperature, or running speed mode.
Autorange	Yes
Review Mode	Yes
Certifications	CE, CSA Hazardous Locations (with supplied Accelerometer): Class I Division 2 Groups A, B, C, D Class II Division 2 Groups E, F, G Temperature Code T6 (85 °C)

*Accuracy does not include the transducer accuracy

Ordering Information

ViSTeC™ Kit - including Std. Accessories

ViSTeC™ Vibration Meter, Transit Case (Hard Shell), 50 m Vg Accelerometer, ViSTeC™ - Accelerometer Cable, Magnet, 4 inch Probe Tip SSTL, 4 pk. AAA Alkaline Batteries, Holster, User Guide P/N 00341

Replacement Parts

ViSTeC™ Vibration Meter	P/N 45887
Transit Case (Hard Shell)	P/N 45895
Operator Manual	P/N 45888
Soft Belt Holster	P/N 46119
Accelerometer (50mV/g)	P/N 45890
Accelerometer Cable	P/N 45889
2-Pole Magnet	P/N 41717
4-inch Probe	P/N 46288

Optional Accessories

Tachometer Interface Cable	P/N 45892
Temperature Probe	P/N 45867

Services

Comprehensive Services

Implementing an effective condition-monitoring program is critical to your success in meeting the equipment reliability, productivity and business goals of your plant and company.



Entek's comprehensive services offering can help you meet your objectives. We can offer a wide range of professional services including program audits, project management, installation, start-up, reliability consulting and advanced machinery analysis.

We will work with you to understand your goals and requirements and make sure that all your needs are addressed to ensure your success.

Customer Support

Entek is committed to providing the highest level of customer support. Our knowledgeable, caring support professionals will provide assistance to ensure your successful program implementation, or day-to-day support.

Reliability Online

Reliability Online (ROL) is a unique service designed to provide results to your Condition Based Maintenance (CBM) program with minimum investment in equipment, training and personnel.

Leveraging the Internet and a team of highly skilled condition monitoring engineers Entek's ROL service will guarantee you the best possible results from your CBM program irrespective of your location or industry.



To obtain the best results from your Condition Based Maintenance program let Rockwell Automation Entek help you manage your CBM program remotely.

Educational Services

The best tools, when used by unskilled craftsmen, will still result in unsatisfactory results. This is true in many aspects of life, but especially in the application of Condition Monitoring techniques and technologies in today's demanding plant environments. Yes, you need to be equipped with the best tools, but you must also receive the proper training to get the maximum benefit from your investment in a successful Condition Monitoring or Reliability program.

Experience, knowledge and quality are the foundation of Entek's training seminars. Technology training is available as well as product training courses; all presented by the most qualified instructors to meet your needs. Choose from on-site seminars and classroom training conducted all over the world to help you gain the maximum benefit from your machinery reliability investment.



Reach us now at www.rockwellautomation.com or www.entek.com

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