VDSeries®









Built on the proven track record of the classic vbSeries® portable vibration analyzers and balancers, the all-new vbSeries data collectors, analyzers, and balancers have been re-engineered from the ground up to offer leading-edge reliability, accuracy and usability.

- Improved ergonomics for walk around data collection
- Large, high resolution (HVGA) backlit LCD

- True left- and right-handed operation Multi-channel on route recordings (collectors and analyzers only) 1 GB memory virtually unlimited spectra and waveform storage
- 10 hour battery life
- DC coupled sensor support
- 12 800 lines of resolution (max)
- 40 kHz Fmax
 Single, Dual or Four-channel recordings depending on model
 Triax. compatibility (vb6[™] and vb9[™] instruments only)
- vb8™ instruments only) CSA Class I, Division 2 Hazardous Locations certification
- USB host port for data transfer to external USB memory

Choose the model most suitable for your needs. Our tiered instrument range allows you to select an appropriate set of features at a cost effective price. Choose a model tailored to your requirements with the added peace of mind provided by our rock solid 5 year warranty.

| | Data Collectors | Data Analyzers | Balancers |
|--------|-----------------|----------------|-------------|
| Lean | vb5 | vb7 | vbBalancer |
| Deluxe | vb6 | vb8 | vbBalancer+ |







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* The incorporation of The Proven Method is available exclusively in **Ascent**® software

THE COMPLETE VIBRATION ANALYSIS PACKAGE

The **vb8**[™] analyzer is a uniquely sophisticated and feature-packed instrument, yet it remains intuitive in operation and flexible enough to suit every level of vibration analyst, from novice through to expert.

The included **Ascent**® software contains the collective experience of over 25 years of expert in-depth machine fault analysis.

- Users with no prior experience or without previously recorded vibration history can now establish a measurement program utilizing proven baseline values from ISO standards and "The Proven Method" from Technical Associates.*
- 2. Experienced users can now generate meaningful spectral alarm bands automatically rather than just relying on basic overall alarms or spectral band guesswork.
- 3. Veteran analysts can now objectively evaluate and compare their findings against a time-tested and proven historical foundation.

Ascent® Level 2 software:

- Fully automated measurement parameter and alarm setups based on "The Proven Method" from Technical Associates*
- ISO 2372 and 10816 standards

- 4 channel simultaneous recordings
- Triax. enabled
- 12 800 line FFT resolution
- 40 kHz Fmax
- 1 GB memory virtually unlimited spectra storage
- Large, high resolution (HVGA) backlit LCD
- Comfortable, ergonomic case design
- Support for acceleration, velocity, displacement, DC coupled, current and voltage output sensors (both AC and DC coupled)
- 2 plane balancing with up to 4 sensors (simultaneous acquisition)
- Commtest's unique 6Pack™ recording system: take up to 12 measurements simultaneously (HF, LF and Demodulation spectra and waveforms) across two channels
- Numeric parameter input via keypad with trend and alarm capability in **Ascent**® software
- Upgradeable using the 'Proflash' system and free firmware updates for five years







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EASY AND EFFICIENT TWO CHANNEL CAPABILITY

The vb7[™] analyzer offers the power and convenience of dual-channel measurement and dual-plane balancing. Its balancing functions enable the quick diagnosis and correction of dynamic unbalance, the most common form of unbalance. The vb7 instrument's combination of accuracy, intuitive operation, ease of use and outstanding storage capacity ensures the vb7 analyzer delivers a premium return on investment. The vb7 instrument includes the powerful Ascent® software in the purchase price.

Ascent Level 2 enables you to program the instrument with thousands of separate machine definitions covering a number of route choices. A library of over 300 customizable parameter sets is also available enabling a vast array of measurement options.

Ascent Level 2 software:

- Route enabled build routes in **Ascent** software and send to the instrument
- CBDb Commtest Bearing Database with over 30 000 bearings
- Orbit and Bode plots
- Waveform analysis tools perfect for the power user
- User-designable SQL/HTML reports unlimited reporting flexibility
- Statistical alarm creation and adjustment

- Improved ergonomics for walk around data collection
- 2 channel simultaneous recordings
- True left- and right-handed operation
- Wide measurement range: 1000 g, 25 000 mm/s, 2500mm
- 2 plane balancing
- ≥ 95 dB dynamic range
- 6400 line FFT resolution
- 40 kHz Fmax
- 1 GB memory virtually unlimited spectra and waveform storage
- Laser speed sensor for automatic capture of machine running speed
- Keyphasor® tach mode
- 5 year warranty on the instrument hardware









HIGH RESOLUTION, FOUR CHANNEL MEASUREMENTS FOR PROACTIVE MAINTENANCE PROFESSIONALS

The $vb6^{TM}$ data collector is a four channel, routeenabled product that provides everything needed for advanced, high resolution data collection. This instrument includes a wide range of recording and measurement types at up to 12 800 lines of resolution. The vb6 includes the powerful Ascent® software in the purchase price.

Ascent Level 1 enables you to program the instrument with thousands of separate machine definitions covering a number of route choices. A library of over 300 customizable parameter sets is also available enabling a vast array of measurement options.

Ascent Level 1 software:

- Route enabled build routes in **Ascent** software and send to the instrument
- CBDb Commtest Bearing Database with over 30 000 bearings

- 4 channel simultaneous recordings
- 12 800 line FFT resolution
- 40 kHz Fmax
- Laser speed sensor for automatic capture of machine running speed
- 1 GB memory virtually unlimited spectra storage
- ≥ 95 dB dynamic range
- Large, high resolution (HVGA) backlit LCD
- Voltage output sensor support
- User-defined recordings for Temperature, Pressure, Mass Flow, Force and Power
- 5 year warranty on the instrument hardware









THE ECONOMICAL SOLUTION FOR THE PROACTIVE MAINTENANCE PROFESSIONAL

The **vb5™** data collector is a single channel, routeenabled product that provides everything needed for cost effective data collection and analysis. Using this instrument maintenance professionals are able to easily take recordings with up to 6400 lines of resolution and greater than 95 dB of dynamic range, and all at a low price that represents exceptional value for money. The **vb5** instrument includes the powerful **Ascent**® software in the purchase price.

Ascent Level 1 enables you to program the instrument with thousands of separate machine definitions covering a number of route choices. A library of over 300 customizable parameter sets is also available enabling a vast array of measurement options.

Ascent Level 1 software:

- Route enabled build routes in Ascent software and send to the instrument
- CBDb Commtest Bearing Database with over 30 000 bearings

- 1 channel recordings
- 6400 line FFT resolution
- 40 kHz Fmax
- 1 GB memory virtually unlimited spectra storage
- \geq 95 dB dynamic range
- Spectrum and Waveform recordings
- Large, high resolution (HVGA) backlit LCD
- 5 year warranty on the instrument hardware

Balancer+







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FOUR CHANNEL UNBALANCE CORRECTION PACKAGE

Lightweight and extremely portable, the vbBalancer+™ 4 channel and vbBalancer™ 2 channel instruments are easily carried on site to any problematic machine. Their 10 hour battery life and 1 GB of internal memory ensure progress is uninterrupted, practically eliminating the need to pause in order to connect to a PC or power supply. The vbBalancer instruments also carry Commtest's legendary 5 year warranty and free lifetime support as standard.

Unbalance causes high levels of mechanical stress and vibration that are transferred directly to the bearings resulting in a proportional reduction in normal bearing life. With a few basic parameters the vbBalancer instruments calculate acceptable unbalance levels to ensure machinery operates within international ISO 1940 guidelines.

Setup

vbBalancer instrument setup is minimal, quick and easy. Only a few calibration runs are required, with or without removing your trial weight.

Memory

The vbBalancer instrument stores your previous balance run data. No need to waste valuable time performing calibration runs on repetitive or routine balance jobs.

Balance

Unbalance is computed quickly and the large backlit LCD display and user-friendly graphical interface indicate the angular position for weight correction.

The vbBalancer+ instrument allows full 4-sensor monitoring of both horizontal and vertical axes on each bearing. This ability provides confidence that a balance on any one axis has not worsened vibrations on the other.

| | DATA COLLECTORS | | DATA ANALYZERS | | BALANCERS | | |
|------------------------------|---|---|---|---|---|---|--|
| SPECIFICATIONS | vb5 | vb6 | vb7 | vb8 | vbBalancer | vbBalancer+ | REMARKS |
| Sensor Input | | | | | | | |
| Channels (simultaneous) | 1 | 4 | 2 | 4 | 2 | 4 | Simultaneous sampling |
| Sensors | Accelerometer | Accelerometer, Velocity, Displacement, Current, Voltage | Accelerometer, Velocity, Displacement, Current | Accelerometer, Velocity, Displacement, Current, Voltage | Accelerometer | Accelerometer, Velocity, Displacement | |
| AC coupled range | 16 V peak-peak | 16 V peak-peak | 16 V peak-peak | 16 V peak-peak | 16 V peak-peak | 16 V peak-peak | Allows for ± 8 V sensor output swing (± 80 g) |
| DC coupled range | - | 0 V to 20 V, -10 V to 10 V, -20 V to 0 V | 0 V to 20 V, -10 V to 10 V, -20 V to 0 V | 0 V to 20 V, -10 V to 10 V, -20 V to 0 V | - | - | e.g. for reading prox-probe gap |
| Connectors | BNC | BNC, LEMO | 2x BNC | BNC, LEMO | 2x BNC | BNC, LEMO | Safety feature: Break-free inline connector |
| Analog to digital conversion | 24-bit ADC | 24-bit ADC | 24-bit ADC | 24-bit ADC | 24-bit ADC | 24-bit ADC | |
| Sensor excitation current | 0 mA or 2.2 mA (configurable), 24 V maximum | 0 mA or 2.2 mA (configurable), 24 V maximum | 0 mA or 2.2 mA (configurable), 24 V maximum | 2.2 mA required for ICP®-type accelerometer |
| Sensor detection | Warns if short circuit or not connected | Warns if short circuit or not connected | Warns if short circuit or not connected | |
| Tachometer | | | | | | | |
| Sensor | | | Laser sensor with reflective tape included in kit | Laser sensor with reflective tape included in kit | Laser sensor with reflective tape included in kit | Laser sensor with reflective tape included in kit | Sensor triggers on beam reflection |
| Laser sensor range | 10 cm to 2 m nominal | 10 cm to 2 m nominal | 10 cm to 2 m nominal | Dependent on size of reflective tape |
| Other Sensor types supported | Contact, TTL pulse | Contact, TTL pulse, Keyphasor® | Contact, TTL pulse, Keyphasor® | Contact, TTL pulse, Keyphasor® | Contact, TTL pulse | Contact, TTL pulse, Keyphasor® | Optically isolated input |
| Power supply to sensor | 5 V, 50 mA | 5 V, 50 mA | 5 V, 50 mA | |
| TTL Pulse rating | 3.5 V (4 mA) min, 28 V (6 mA) max, off-state 0.8 V | 3.5 V (4 mA) min, 28 V (6 mA) max, off-state 0.8 V | 3.5 V (4 mA) min, 28 V (6 mA) max, off-state 0.8 V | 3.5 V (4 mA) min, 28 V (6 mA) max, off-state 0.8 V | 3.5 V (4 mA) min, 28 V (6 mA) max, off-state 0.8 V | 3.5 V (4 mA) min, 28 V (6 mA) max, off-state 0.8 V | |
| Keyphasor® threshold | - | 13 V ± 1 V | 13 V ± 1 V | 13 V ± 1 V | - | 13 V ± 1 V | |
| Speed range | 30 RPM to 300 000 RPM (0.5 Hz to 5 kHz) | 30 RPM to 300 000 RPM (0.5 Hz to 5 kHz) | 30 RPM to 300 000 RPM (0.5 Hz to 5 kHz) | 30 RPM to 300 000 RPM (0.5 Hz to 5 kHz) | 30 RPM to 300 000 RPM (0.5 Hz to 5 kHz) | 30 RPM to 300 000 RPM (0.5 Hz to 5 kHz) | |
| Parameter Indication | | | | | | | |
| Maximum levels | >1000 g (10 000 m/s2), >1000 in/sec (25 000 mm/s), >100 in (2500 mm) | >1000 g (10 000 m/s2), >1000 in/sec (25 000 mm/s), >100 in (2500 mm), >10 000 Amps | >1000 g (10 000 m/s2), >1000 in/sec (25 000 mm/s), >100 in (2500 mm), >10 000 Amps | >1000 g (10 000 m/s2), >1000 in/sec (25 000 mm/s), >100 in (2500 mm), >10 000 Amps | >1000 g (10 000 m/s2), >1000 in/sec (25 000 mm/s), >100 in (2500 mm) | >1000 g (10 000 m/s2), >1000 in/sec (25 000 mm/s), >100 in (2500 mm) | Effective limit is sensor sensitivity and output voltage |
| Dynamic signal range | >95 dB | >95 dB | >95 dB | >95 dB | ›95 dB | ›95 dB | |
| Harmonic distortion | Less than -70 dB typical | Less than -70 dB typical | Less than -70 dB typical | Other distortions and noise are lower |
| Units | g or m/s2, in/s or mm/s, mil or mm or µm adB, vdB | or mm/s2, m/s or mm/s, mit or mm or µm adB, vdB, amps and user-defined | g or m/s2, in/s or mm/s, mil or mm or µm adB, vdB, amps | g or m/sz, in/s or mm/s, mit or mm or μm adB, vdB, amps and user-defined | g or m/s2, in/s or mm/s, mil or mm or µm adB, vdB | g or m/s2, in/s or mm/s, mil or mm or µm adB, vdB | U-peak, peak-peak or RMS. Auto-scale by 1000x when required US & SI options for both adB & vdB |
| Magnitude & Cursors | Overall RMS value, dual cursors, harmonics | Overall RMS value, dual cursors, harmonics | Overall RMS value, dual cursors, harmonics | Digital readouts on chart |
| Accuracy | ± 1% (0.1 dB) | ± 1% (0.1 dB) | ± 1% (0.1 dB) | For DC level (%F.S.) & AC measured at 100 Hz |
| Frequency response | ± 0.1 dB from 10 Hz to 15 kHz; ± 3 dB from 1 Hz to 40 kHz | ± 0.1 dB from 10 Hz to 15 kHz; ± 3 dB from 1 Hz to 40 kHz | ± 0.1 dB from 10 Hz to 15 kHz; ± 3 dB from 1 Hz to 40 kHz | ± 0.1 dB from 10 Hz to 15 kHz; ± 3 dB from 1 Hz to 40 kHz | ± 3 dB from 1 Hz to 5 kHz | ± 3 dB from 1 Hz to 5 kHz | Acceleration and velocity. From value measured at 100 Hz |
| Spectrum Display | | | | | | | |
| Fmax possible ranges | 25, 50, 100, 125, 150, 200, 300, 400, 500, 600, 800, 1000, 1200, 1600, 2000, 2500, 3000, 4000, 5000, 6000, 8000, 10 000, 15 000, 20 000, 30 000, 40 000 Hz | 25, 50, 100, 125, 150, 200, 300, 400, 500, 600, 800, 1000, 1200, 1600, 2000, 2500, 3000, 4000, 5000, 6000, 8000, 10 000, 15 000, 20 000, 30 000, 40 000 Hz | 25, 50, 100, 125, 150, 200, 300, 400, 500, 600, 800, 1000, 1200, 1600, 2000, 2500, 3000, 4000, 5000, 6000, 8000, 10 000, 15 000, 20 000, 30 000, 40 000 Hz | 25, 50, 100, 125, 150, 200, 300, 400, 500, 600, 800, 1000, 1200, 1600, 2000, 2500, 3000, 4000, 5000, 6000, 8000, 10 000, 15 000, 20 000, 30 000, 40 000 Hz | 25, 50, 100, 125, 150, 200, 300, 400, 500, 600, 800, 1000, 1200, 1600, 2000, 2500, 3000, 4000, 5000 Hz | 25, 50, 100, 125, 150, 200, 300, 400, 500, 600, 800, 1000, 1200, 1600, 2000, 2500, 3000, 4000, 5000 Hz | Or equivalent CPM values Or orders-based from 1X to 999X |
| Fmin possible range | 0 to Fmax | 0 to Fmax | 0 to Fmax | 0 to Fmax | 0 to Fmax | 0 to Fmax | vb instrument zeroes all spectral lines below Fmin |
| Resolution | 400, 800, 1600, 3200, 6400 lines | 400, 800, 1600, 3200, 6400, 12 800 lines | 400, 800, 1600, 3200, 6400 lines | 400, 800, 1600, 3200, 6400, 12 800 lines | 800 lines | 800 lines | 3200 lines max. for dual channel measurements |
| Frequency scale | Hz, CPM, Orders | Hz, CPM, Orders | Hz, CPM, Orders | Hz, CPM, Orders | Hz, CPM | Hz, CPM | Linear scale with zooming |
| Amplitude scale | Acceleration, velocity, displacement | Acceleration, velocity, displacement, current or user defined | Acceleration, velocity, displacement or current | Acceleration, velocity, displacement, current or user defined | Acceleration, velocity or displacement | Acceleration, velocity or displacement | Linear or log scales, auto or manual scaling |
| Window shapes | Hanning, rectangular | Hanning, rectangular | Hanning, rectangular | Hanning, rectangular | Hanning | Hanning | |
| Overlap | (0, 12.5, 25, 37.5, 50, 62.5, 75, 87.5) % | (0, 12.5, 25, 37.5, 50, 62.5, 75, 87.5) % | (0, 12.5, 25, 37.5, 50, 62.5, 75, 87.5) % | (0, 12.5, 25, 37.5, 50, 62.5, 75, 87.5) % | 50% | 50% | Dependent on Fmax and number of lines |
| Number of averages | 1, 2, 4, 8, 16, 32, 64, 128 | 1, 2, 4, 8, 16, 32, 64, 128 | 1, 2, 4, 8, 16, 32, 64, 128 | 1, 2, 4, 8, 16, 32, 64, 128 | 4 | 4 | Increases sampling time proportionally |
| Averaging types | Linear, exponential, peak hold | Linear, exponential, peak hold | Linear, exponential, peak hold, synchronous | Linear, exponential, peak hold, synchronous | Linear | Linear | |
| Demodulation bandwidths | 21 bandwidth options | 21 bandwidth options | 21 bandwidth options | 21 bandwidth options | - | - | |
| Waveform Display | | | | | | | |
| Number of samples | 1024, 2048, 4096, 8192, 16 384 | 1024, 2048, 4096, 8192, 16 384, 32 768 | 1024, 2048, 4096, 8192, 16 384 | 1024, 2048, 4096, 8192, 16 384, 32 768 | 2048 | 2048 | |
| Time scale | 10 ms to 640 seconds | 160 ms to 32 seconds | 160 ms to 32 seconds | Or orders based from 1 to 999 revs |
| Time synchronous averages | - | - | 1, 2, 4, 8, 16, 32, 64, 128 | 1, 2, 4, 8, 16, 32, 64, 128 | - | - | Only available when tachometer triggered |
| Long time waveform | - | - | Up to 40 kHz Fmax (28 M samples) | Up to 40 kHz Fmax (28 M samples) | - | - | |

| | DATA COLLECTORS | | DATA ANALYZERS | | BALANCERS | | |
|-------------------------------------|---|---|---|---|---|---|---|
| SPECIFICATIONS | vb5 | vb6 | vb7 | vb8 | vbBalancer | vbBalancer+ | REMARKS |
| Logging Features | | | | | | | |
| Data storage | 1 GB | |
| Data storage structure | Folders / machines / points / locations /routes | Folders / Machines | Folders / Machines | No limits are applied, 50 character names |
| Max Folder size | 10 000 measurement locations | |
| Direct print reports | - | - | Via Ethernet to PCL-enabled printer | Balance reports |
| Balancing | | | | | | | |
| Planes | - | - | 2 planes, 2 sensors | 2 planes, 4 sensors | 2 planes, 2 sensors | 2 planes, 4 sensors | |
| Speed range | - | - | 30 to 60 000 RPM | |
| Measurement type | - | - | Acceleration, velocity, displacement | Acceleration, velocity, displacement | Acceleration, velocity, displacement | Acceleration, velocity, displacement | |
| Weight modes | - | - | Angle 0° to 360°, fixed position, circumference arc | e.g. weights on fan blades, linear dist around circumference |
| Remove trial weights | - | - | Yes, No | Yes, No | Yes, No | Yes, No | Removed weight automatic recalculation |
| Manual data entry | - | - | v | ٧ | ٧ | ٧ | Allows re-entry of previous balance jobs |
| Storage | - | - | Against machines in data structure | No limits are applied |
| Channel selection | - | - | Single or dual channel | Up to 4 channels simultaneous | Single or dual channel | Up to 4 channels simultaneous | |
| Display & Communications | | | | | | | |
| Resolution | 480 x 320 pixels (HVGA) Graphic Greyscale LCD | |
| Viewing area | 4.6" x 3.1" (117 x 79) mm | |
| Backlight | White LED, 4V, 100 Cd/m2 | |
| Communications with PC | USB and Ethernet | Route/Measurement transfer and Proflash firmware upgrade |
| USB host port | ٧ | ٧ | v | v | v | v | Save folders to USB flash drive |
| Battery & Charger | | | | | | | |
| Battery Type | Custom Lithium Ion pack, 7.4 V, 4500 mAh | |
| Operating time | 10 hours | Backlight on (60 second timeout) |
| Charger type | Internal charging, automatic control | External Power pack 12 V DC, 3 A output, included in kit |
| Charge rate | 3 A nominal | 3 hours for complete charge |
| Mechanical | | | | | | | |
| Size | 9.9" W x 5.8" L x 2.4" H (252 x 148x 60) mm | 9.9" W x 5.8" L x 2.4" H (252 x 148x 60) mm | 9.9" W x 5.8" L x 2.4" H (252 x 148x 60) mm | 9.9" W x 5.8" L x 2.4" H (252 x 148x 60) mm | 9.9" W x 5.8" L x 2.4" H (252 x 148x 60) mm | 9.9" W x 5.8" L x 2.4" H (252 x 148x 60) mm | |
| Weight | 2.7 lb (1.2 kg) including battery | |
| Environmental | | | | | | | |
| Operating Temp | 14 °F to 122 °F (-10 to 50) °C | 14 °F to 122 °F (-10 to 50) °C | 14 °F to 122 °F (-10 to 50) °C | 14 °F to 122 °F (-10 to 50) °C | 14 °F to 122 °F (-10 to 50) °C | 14 °F to 122 °F (-10 to 50) °C | |
| Storage Temp & Humidity | -4 °F to 140 °F (-20 to 60) °C, 95% RH | -4 °F to 140 °F (-20 to 60) °C, 95% RH | -4 °F to 140 °F (-20 to 60) °C, 95% RH | -4 °F to 140 °F (-20 to 60) °C, 95% RH | -4 °F to 140 °F (-20 to 60) °C, 95% RH | -4 °F to 140 °F (-20 to 60) °C, 95% RH | |
| ЕМС | EN61326 | EN61326 | EN61326 | EN61326 | EN61326 | EN61326 | |
| Ruggedness | IP65 / 4' (1.2 m) drop onto concrete / MIL-STD-810F-IV | IP65 / 4' (1.2 m) drop onto concrete / MIL-STD-810F-IV | IP65 / 4' (1.2 m) drop onto concrete / MIL-STD-810F-IV | IP65 / 4' (1.2 m) drop onto concrete / MIL-STD-810F-IV | IP65 / 4' (1.2 m) drop onto concrete / MIL-STD-810F-IV | IP65 / 4' (1.2 m) drop onto concrete / MIL-STD-810F-IV | |
| Hazardous Locations | CSA Class I, Division 2 (Groups A, B, C, D) | CSA Class I, Division 2 (Groups A, B, C, D) | CSA Class I, Division 2 (Groups A, B, C, D) | CSA Class I, Division 2 (Groups A, B, C, D) | CSA Class I, Division 2 (Groups A, B, C, D) | CSA Class I, Division 2 (Groups A, B, C, D) | |
| Certification | (€ € | (۩ | (€ ℃ | (€€ | (۩ | (۩ | |

| | DATA COLLECTORS | | DATA ANALYZERS | | BALANCERS | |
|----------------------------|-----------------|-----|----------------|-----|------------|-------------|
| SPECIFICATIONS | vb5 | vb6 | vb7 | vb8 | vbBalancer | vbBalancer+ |
| Recording Types | | | | | | |
| Route enabled | ٧ | ٧ | ٧ | ٧ | | |
| Spectrum/Waveform | ٧ | ٧ | ٧ | ٧ | ٧ | ٧ |
| 6Pack | ٧ | V | ٧ | V | | |
| Keypad entry | ٧ | V | ٧ | V | | |
| Average value | | ٧ | √* | ٧ | | |
| Time Synchronous Averaging | | | ٧ | ٧ | | |
| Bump test | | | ٧ | V | | ٧ |
| Coast-down/Run-up | | | ٧ | V | | ٧ |
| Cross-channel phase | | | ٧ | ٧ | | |

* Acceleration, Velocity, Displacement and Current units only.

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All product specifications are subject to change without notice. Last revised 1 September 2008.

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