



Brüel & Kjær Vibro
A member of the NSK Group



VIBROSTORE 100/100E

Asset monitoring at the push of a button

The easy way to detect the most common machine faults

Critical machinery usually is equipped with an online protection system to avoid catastrophic failure. In most cases, operators will add online condition monitoring to be able to diagnose and trend a developing fault at an early stage. **But how about semi-critical or so-called balance-of-plant machines?** It's probably too costly to install an online monitoring system on all of them. Even a sophisticated large portable device would be over-kill. Yet you don't want to let them run without any inspection as any sudden machine failure will undoubtedly impact the whole production process.

The ideal solution is a simple, cost-efficient handheld device that measures vibration levels and bearing wear at the push of a button. Download the readings to a PC for reporting, further analysis and trending - and you're done!

Don't leave your balance-of-plant machines to chance. Detect faults early so you can cost-effectively plan maintenance ahead of time!

VIBROSTORE 100/100E (VST-100/VST-100E) is ideally suited for this task and fills a real gap

This lightweight device can be used single-handedly and allows even untrained personnel to take accurate vibration measurements and quickly assess the machine's overall vibration condition. Even an ATEX compliant version is available - **VST-100E** - for use in explosive environments. The **VST-100** is for standard applications. The instrument is equipped with a cable-connected high-quality Brüel & Kjær Vibro acceleration sensor that's already preset. Choose the type and size of the machine you want to monitor, enter its running speed and press one button to perform the measurement. A traffic-light coded display immediately indicates the severity of the vibration based on the built-in ISO 20816 levels (velocity in mm/s or inch/s). The main screen also shows the bearing condition in BDU (Bearing damage unit) and total g (rms acceleration). The display of the vibration level in frequency ranges indicates the most common machine faults like imbalance, misalignment or looseness.

For a more detailed analysis, the instrument provides spectra with up to 800 lines with zoom and cursor.

VIBROSTORE 100/100E comes ready-to-use in a case including a removable protective rubber sleeve. Alternatively, it fits into the docking cradle with a belt clip and a USB mini connector for data transfer to a PC.

Optional accessories (not applicable for VIBROSTORE 100E) include a strobe to measure the running speed in case it's not available. Headphones (not included) can be connected via Bluetooth to listen to the bearing noise.



Spiral cable with two pin connector

Vibration accelerometer AS-063 (ASA-063 for VST-100E)

Magnet for curved surfaces

USB cable

VST-100 with rubber sleeve

Docking cradle

Nylon carrying case

There is nothing like a powerful team

VIBROSTORE 100/100E is available either stand-alone or packaged with the Brüel & Kjær Vibro Report & Route Manager software. Together, they provide all you need for quick, reliable and cost-efficient machine health monitoring. Report & Route Manager is a very powerful and highly functional route editor and analysis software.

Set up your route, upload it to VIBROSTORE 100/100E, perform the route-based inspection and download the results to Report & Route Manager. The data can be displayed in a variety of different ways including vibration frequency spectra, bearing noise and trend plots as well as waterfall diagrams. You may also generate reports either manually or automatically.

This lightweight device can be used single-handedly (VIBROSTORE 100 shown in a rubber sleeve)

Report & Route Manager benefits at a glance:

- Superior reporting functionality
- Modular design
- Optimized workflow
- Advanced navigation in measurement analysis and diagnosis tools
- Fast and efficient measurement reporting
- Can be used with both VIBROSTORE 100/100E and the Vx-80 handheld series



VIBROSTORE 100/100E connects to the Report & Route Manager software on your PC via USB (or Bluetooth).



VST-100E for use in explosive environments.

VIBROSTORE 100/100E at a glance

VIBROSTORE 100/100E is the perfect combination of high Brüel & Kjær Vibro quality and extremely competitive pricing. Start monitoring your machines with VIBROSTORE 100/100E today and benefit from valuable machine data at your fingertips.

VST-100/100E specification and scope of delivery:

Size	200 mm x 60 mm x 26 mm
Weight	ca. 280 g (VST-100E: ca. 420 g)
Environmental	
Degree of protection	IP67
Operating	0 °C to +50 °C (32 °F to 122 °F)
Storage	-20 °C to +70 °C (-4 °F to 158 °F)
Power supply	2 x AA batteries
Frequency range	2/10 Hz to 1 kHz (ISO) 1 kHz to 10 kHz (BDU) 10Hz to 1kHz (Vibration bands)
Max frequency resolution	1.25 Hz @ 800 lines FFT setting Acceleration in g Velocity in mm/s (or inch/s) Bearing noise in BDU (bearing damage units) Displacement (mm, microns, mils)
Bluetooth connectivity	For headphones (VST-100 only) and data communications
Displayed frequency units	Hertz (Hz), RPM or CPM
Input range	User selectable with accelerometer sensitivity
Vibration analysis diagnostic bands (RPM = run speed)	Unbalance 1x RPM Alignment 2x RPM Looseness 3x RPM
Accuracy	+/-5 % (acceleration: +/- 10% below 20Hz)
Data storage	Up to 1000 measurements/machines (with a maximum of 10 measurements per machine)
Languages in instrument	German / English / French / Italian / Spanish / Portuguese / Dutch / Chinese / Korean / Japanese / Russian / Czech
Accessories	Docking cradle and USB cable Protective boot (mandatory for VST-100E to use in hazardous areas) Spiral cable with two pin connector Accelerometer AS-063 for VST-100, ASA-063 for VST-100E Nylon carrying case
Optional accessories	AC-7315 strobe attachment (VST-100 only) AC-172 magnet for flat surfaces Report & Route Manager software for VIBROSTORE 100/100E
Hazardous area approvals (VST-100E)	ATEX  II 2G Ex ib IIC T4 Gb (-20°C ≤ Ta ≤ +40°C) IECEX II 2G Ex ib IIC T4 Gb (-20°C ≤ Ta ≤ +40°C) UL hazardloc area Class I, zone I, IIC Class I, division, groups A-D (-20°C ≤ Ta ≤ +40°C)

VIBROSTORE 100/100E is fully supported by our service and training teams.

For more information, call us at +1 (775) 552 3110, send an email to sales-americas@bkvibro.com or refer to our website www.bkvibro.com for the product specification.



Want to learn more about VIBROSTORE 100/100E?

Follow the link of the QR code to access our website with videos on how to use VST-100/VST-100E and ReO software!

Germany

Brüel & Kjær Vibro GmbH
Leydheckerstrasse 10
64293 Darmstadt
Germany
Phone: +49 6151 428 0
Fax: +49 6151 428 1000

info@bkvibro.com

Denmark

Brüel & Kjær Vibro A/S
Lyngby Hovedgade 94, 5 sal
2800 Lyngby
Denmark
Phone: +45 69 89 0300
Fax: +45 69 89 0301

www.bkvibro.com

USA

BK Vibro America Inc.
1100 Mark Circle
Gardnerville, NV 89410
USA
Phone: +1 775 552 3110