



Compass 6000™: Ten-fold increase in the database storage rate for "VIBROCONTROL 6000® Primaries"

Compass 6000 stands for Condition Monitoring and is the core competence of Brüel & Kjær Vibro. In addition to the Compass Database Server, the VIBROCONTROL 6000® Machine Protection System (VC-6000®) is also a core component. VC-6000® continuously monitors the machine's oscillation and process variables known as the "primary values". Independent of the safety function, these "primaries" are automatically saved for condition monitoring in the Compass Database.

Until now, the storage rate, in other words the smallest possible time interval during which 2 primaries can be saved to the database, was limited to 1 second. With the latest version of Compass 6000, this maximum save-rate will be increased 10-fold up to 100ms (fast primaries), one of the fastest in the market.

What are the associated benefits?

The benefits of this substantially higher storage rate become especially important when the machine is in a transient operational state (high changes to the rotation speed, for example).

To adequately record this state, typically known as run-up or coast-down, high sampling rate are imperative (storage rate).

In the current version of Compass 6000 (3.6.21570), you can configure the system in such a way that what is known as the "adapted measurements" rotation speed and / or amplitude dependant can be saved to the database with a storage rate of up to 100ms (>>utilisation of *speed logging*). With the announcement of these enhancements, a gap has been closed for VC-6000® primaries with the implementation of a 100 ms storage rate. Vectors are an exception (primary amplitude and phase). These can still only be transferred and saved once per second, although also up to 100 ms for utilisation as "adapted measurements".