

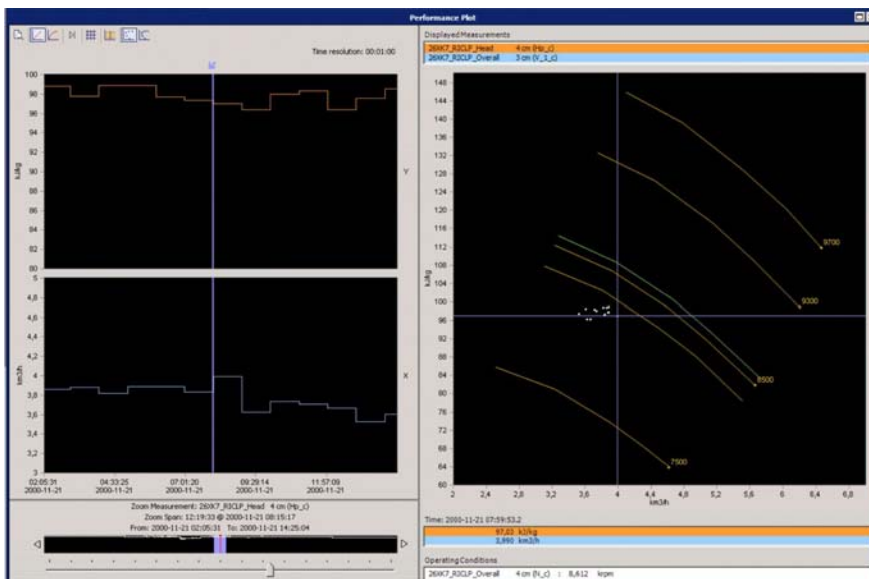


Product Sheet

Compass 6000 - Performance Monitoring Module

Introduction & Benefits

Performance parameters are monitored extensively in a wide range of machines in the petrochemical, oil & gas and power industries to maximise efficiency and productivity and to detect and diagnose specific machine faults. The **Performance Monitoring Module, Type 3160-03**, is 'fine-tuned' to your specific application as a **Basic or Advanced Performance Monitoring package**.



calculated performance data and vibration measurements.

Features

- Open user configurable modules
- Real gas property calculations
- Operating point display in performance maps
- Trending and monitoring of KPI-deviations based on corrections to reference conditions
- Full range of implementation services

Powerful Toolbox

The 3160-03 package includes a number of built-in features, such as pre-defined calculation formulae and gas-property functions.

The software also includes a wide range of operands – similar in syntax to those used in spreadsheet programs - that can be used in creating or editing your own performance monitoring formulae.

Module Concept

The 3160-03 is an application module that is used with other software modules, such as the 3160-01 Detection and Trending Software and 3160-02 Diagnosis Software.

Experience

In 1998 the Type 3540 COMPASS system was introduced as the first successful machine monitoring software offering integrated performance monitoring. Brüel & Kjær Vibro's new generation system, Compass 6000, offers improved, dedicated solutions that combine advanced software, application knowledge and implementation services in a new dimension for performance monitoring.

Benefits

- Improved maintenance practise and planning by automatic monitoring status.
- Better understanding of your machines by calculated Key Performance Indicators (KPI).
- Reduce operational costs and avoid lost production due to fouled machines by efficiency monitoring
- No additional sensors or cabling for process data – data is imported from existing acquisition systems.
- In depth diagnosis through correlation of raw process data,

Technical Information – Performance Monitoring Module

The 3160-03 can be used with any number of Application Software Modules for specific machine types, such as for pumps, compressors, steam turbines, gas turbines, etc.

The Application Software Modules are customized by required implementation services as either **Basic** or **Advanced performance monitoring**. Basic performance

monitoring uses calculated thermodynamic parameters under actual operating conditions for automatic fault detection and trending. The Advanced monitoring package uses the same calculated thermodynamic parameters, but these are corrected to inlet reference conditions for more reliable trending and diagnosis, and in addition, the calculated deviations

for the corrected values are trended for earlier fault detection. Furthermore, the Advanced performance monitoring package includes a diversity of plots, such as compressor map plots and Gas Turbine control curve plot for enhanced diagnosis capability.

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