



Product Sheet

Compass 6000™ - Performance Monitoring Software Introduction & Benefits

Performance parameters are monitored extensively in a wide range of machines in the petrochemical, oil and gas, and power industries to maximise efficiency, productivity and throughput and to detect and diagnose specific machine faults. The **Performance Monitoring Software, type 3160-03**, has a high level of reliability due to the multitude of individual performance monitoring data which can be 'fine-tuned' to your specific application. Keeping a sensitive check on your machines' efficiency, productivity and operating costs and reducing emissions and resultant costly emissions taxes.

COMPASS™

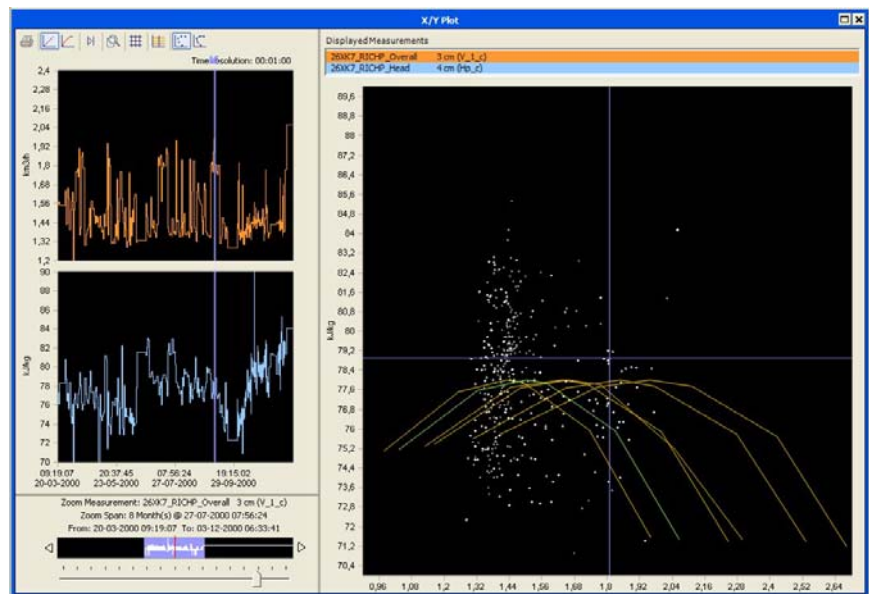
In 1998 COMPASS was introduced as the first successful machine monitoring software offering integrated performance monitoring. The new generation, "Compass 6000™" offers improved, dedicated solutions, combining application knowledge and services in new dimensions for performance monitoring.

Measurements

Direct measurements, imported measurements, and calculated measurements play an important role in the performance monitoring strategy. A 25-channel virtual module is used to import process values from an external process control system to the "Performance Monitoring Software".

Performance

The "Trend Monitoring Software" allows you to customise measurements for specific applications, based on user-defined formulae that use constants, measured data or other calculated measurements as input variables.



However temperature, pressure, load, etc., measurements give only limited information on machine condition. Indirect measurements (calculated values) often give the best results, e.g. in the case of thermodynamic parameters such as efficiency, polytropic head and others.

Powerful Toolbox

The "Performance Monitoring Software" package includes a number of built-in features, such

as pre-defined calculation measurement formulae and gas-property tables.

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 formulae for calculating values for performance monitoring.

DCS Systems

In many industries the DCS systems provide most of the

necessary process data needed for the appropriate thermodynamic calculations used in performance monitoring. Since these measurements are normally readily available, no further sensors are required.

Data transfer

Overall value measurements (scalars) can be imported to the Performance Monitoring Software in several ways. Through:

- o OPC interface,
- o Text file sent over a TCP/IP LAN/WAN, with file transport format (FTP)
- o Keyboard input

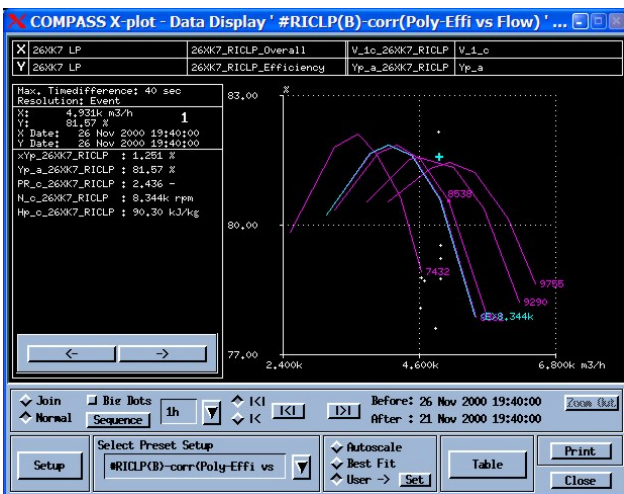
Module Concept

The prerequisite for performing performance monitoring with the Performance Monitoring Software, type 3160-03, is installation of the "Trending Software" package, type 3160-01.

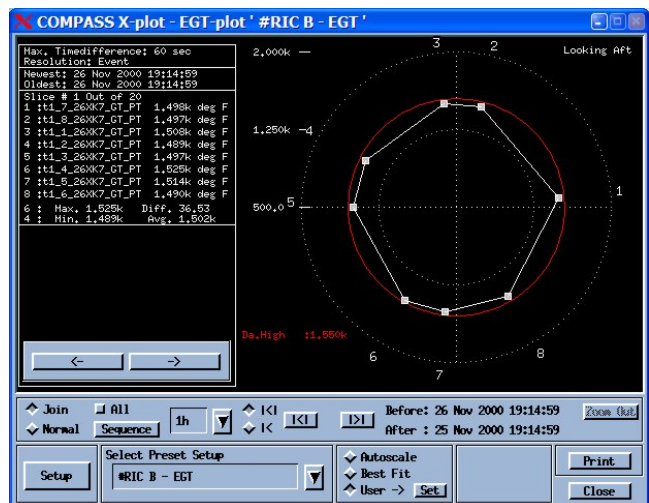
Performance Monitoring Software plots

The figures below are examples of some of the analysis plots that are obtainable at the Compass 6000™ Monitoring Workstation from the "Performance Monitoring Software". Accurate, easy-to-interpret plots with authoritative, informative, diagnostic functions.

For each application-specific SM module in the VIBROCONTROL 6000 system which provides signals for performance monitoring to be carried out, a "Performance Monitoring Software" licence must be ordered.



Efficiency plot
(alternative display)



EGT plot

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