

# Bently PERFORMANCE™SE™ Software

## Bently Nevada™ Asset Condition Monitoring

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### Description

#### System

Bently PERFORMANCE SE software extends the functionality of System 1™ software to include on-line thermodynamic performance monitoring of machinery. Since it is completely integrated with System 1 database and display modules, Bently PERFORMANCE SE software provides comprehensive information on the condition of machines in combined mechanical and thermodynamic formats.

#### Engineered Solution<sup>(1)</sup>

Bently PERFORMANCE SE software includes the engineering services necessary to evaluate your requirements for performance-related calculations and fully implement them. Bently PERFORMANCE SE software is sold as an engineered system to ensure that it is installed, configured, and commissioned to match your application and to meet industry standards for accuracy and repeatability.

#### Software

Bently PERFORMANCE SE software provides extensive, highly configurable capabilities for both simple and complex performance-related calculations. It performs these computations based on Bently Nevada's standard machine templates and feeds this information back into the System 1 software using Microsoft's NetDDE protocol. Once in the System 1 software, all performance data can be viewed from any System 1 display. By using these displays to correlate and compare performance data and vibration data, you can understand the overall health of your machinery more completely. Because Bently PERFORMANCE SE software co-resides on the System 1 server, it enjoys identical capabilities for networking and remote access as System 1™ software.

Bently Manual Input Software can be used to provide data points that are not otherwise available through System 1 Data Acquisition. These additional points added using the Bently Manual Input could be used in performance calculations and can be viewed and trended in System 1 Display.

#### Integration<sup>(2)</sup>

Integration of Bently PERFORMANCE SE data with plant control and automation systems can be accomplished using the numerous System 1 interface options for importing and exporting data using industry-standard, open protocols. This integration allows measurements for performance-related calculations to be obtained from existing machine control, plant control, and process control systems. It also allows alarms, calculated variables, trends, and other System 1 and PERFORMANCE SE data to be exported and shared as



required with other plant systems and computers.

### Training

Basic training about how to operate the software is included with the purchase of Bently PERFORMANCE SE software. Additional training is available that shows how to derive maximum benefit from Bently PERFORMANCE SE and System 1 software by implementing an overall machinery management program or by revising operating procedures. This additional training also teaches management and operation personnel how to use the information provided by the system, rather than just how to operate the system. This training can be supplied at your site or at a Bently Nevada Training Center.

### Software Support Plan

Every Bently Nevada software product is covered by our 1-year Technical Support Plan. The Technical Support Plan will:

- Correct any nonconformance that is preventing the software from operating in accordance with published specifications.
- Enable you to contact Bently Nevada's Corporate Product Service for technical assistance with the software.
- Allow you to download new software releases via our software Update site on the World Wide Web at [www.bently.com](http://www.bently.com). Installation or configuration services for these software updates will be charged at Bently Nevada services rates.

Contact your local sales professional for more information on the Software Support Plan.

### Notes:

1. Bently PERFORMANCE SE software is only sold as an engineered solution installed by Bently Nevada.
2. Bently Nevada's Global Services organization can assist customers with all aspects of system design, installation, integration, configuration, operation, optimization, and training.

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## Specifications

### Required applications for each Server:

System 1 Data Acquisition Version 4.1 or later, Microsoft Excel 2000 or higher.

### Requirements for each Client (Display):

System 1 Display Version 4.1 or later.

### Supported Machine Types:

Bently PERFORMANCE SE supports all major rotating and process equipment for refinery and petrochemical applications, such as gas turbines, steam turbines, and process compressors. Equipment libraries are continuously being extended.

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### Computers, Operating Systems<sup>(3),(4),(5)</sup>

Refer to Specifications and Ordering Information (p/n 145146-01) for System 1 software

#### Notes:

(1) Workstation requirements for Bently

PERFORMANCE SE software are identical to those for System 1 software. If ordering a workstation for Bently PERFORMANCE SE software, use the system details documented in the System 1 Ordering Information.

- (2) Complete workstations are available from Bently Nevada. These systems have been selected based on high quality, performance, reliability, and world-wide warranty. When a complete system is ordered from Bently Nevada, it can be shipped with all software pre-installed and fully tested. Contact your nearest Bently Nevada Sales Professional for specifications and ordering information.
- (3) Bently Nevada cannot guarantee proper operation of Bently PERFORMANCE SE software on any type of workstation other than those we have tested and offer for sale. In cases where a workstation other than those tested and approved must be used, Bently Nevada provides a service at an additional cost to conduct the appropriate testing. Contact your local Bently Nevada Sales Professional for more information on workstation requirements.

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## Ordering Information

### Bently PERFORMANCE SE Software Package

Bently PERFORMANCE SE software is sold as part of a services project. For receiving a quotation or ordering, please contact your local customer service representative.

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