RS*skaner* / RS*monitor*
Software for Machine Monitoring System

Application

The Rsskaner / RSmonitor software is designed to monitor, visualize, diagnose and record data acquired from rotating machines equipped with TNC2000 system incorporating VMSH modules and/or PW display panel.

While the RSskaner is intended to provide continuous acquisition and analysis of data from the measurement modules and logging of system data and events, the RSmonitor, when used with the RSskaner, enables data visualisation and diagnostics.

Description

The RSskaner is installed in a monitoring station (industrial computer); communication with the measurement modules is accomplished via RS485 interface using ModBus RTU protocol.

The RSmonitor can be started directly from the monitoring station. The user may select up to nine screens to present data of measurements carried out by the system (system sensors, VMSH measurement modules, PW display panels and monitoring station with preinstalled RSskaner). For network configurations, the RSmonitor can be started from a workstation (a PC), where both the monitoring station and the workstation are interconnected within a user's intranet.

Data from measurements are presented in numerical form on synoptic screen fields, the number and attributes of which for each individual screen are defined by the user. A special mode allows the user to view data as run-time graphs or signal amplitude spectra acquired from relative and absolute vibration measurement modules; additionally, for relative vibration measurement modules, the orbit can be visualized.

Data can be presented both in real time (ON-LINE) and OFF-LINE using the historical data stored in the data base. The software allows both ON-LINE and OFF-LINE tracking and viewing of events recorded by the RSskaner. Typically, such events may include exceeding the limit values and alarms or other system events, such as setup changes, measurement line malfunction or system interrupts.

In order to start using the system, it should be configured first from RSskaner level.

The user needs to define the number and type of measurement modules (SLAVE); then, registers and their destination within given measurement module shall be defined.

Specifications

ENVIRONMENTAL

Monitoring station:
Operating system: Win98, Win2000, WinNT
Hardware: Pentium II or newer, 512MB RAM, 5GB free hard disk space, 19" colour monitor, CD-RW drive, WatchDog, RS485 interface card, network card
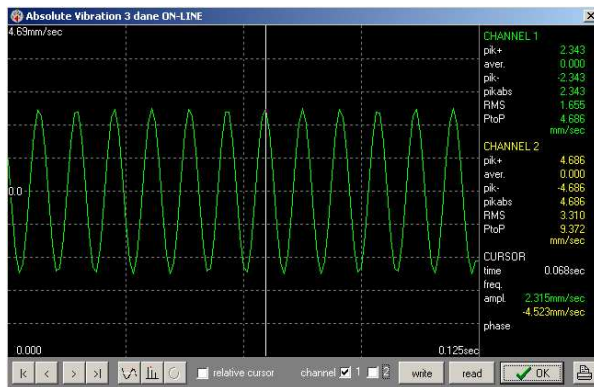
Work station:
Operating system: Win98, Win2000, WinNT
Hardware: Pentium II or newer, 128 RAM, 50MB free hard disk space, 19" colour monitor, CD-RW drive, network card, colour printer

Examples of screens and selected windows are shown below: