Configuration software for VM600 machinery protection systems

FEATURES

» From the Vibro-Meter® product line

» Configuration and operation of VM600 rack hardware such as MPC4 and IOC4T machinery protection card pairs, MPC4SIL and IOC4T machinery protection card pairs, and AMC8 and IOC8T analog monitoring card pairs

» Two VM600 MPSx software packages:
  MPS1 for configuration
  MPS2 for configuration and trending

» Live data (MPS1 and MPS2) and historical data (MPS2 only)

» Graphical user interface


» Available in 3 languages (English, French, German)

DESCRIPTION

VM600 MPSx is proprietary software from Meggitt Sensing Systems’ Vibro-Meter® product line for use with VM600 rack-based machinery protection systems containing MPC4, MPC4SIL, AMC8 and MPC1 cards. The VM600 MPSx software is available as two distinct software packages: MPS1 and MPS2. MPS1 allows the complete configuration of a VM600 machinery protection system and the display of live data. It is intended to be used for machinery protection applications.

MPS2 allows the complete configuration of a VM600 machinery protection system and the display of historical and/or live data. It is intended to be used for machinery protection and/or basic condition monitoring applications.

The VM600 MPSx software packages (that is, MPS1 and MPS2) run on Microsoft® Windows Server 2003, Windows NT, Windows 2000, Windows XP, Windows Vista, Windows 7 and Windows 10, and are menu-driven for ease of use.
VM600 MPS1 and MPS2 software – configuration

The VM600 MPS1 and MPS2 software packages support the standalone configuration of MPC4, MPC4SIL, AMC8 and MPC1 cards, via the cards’ serial connectors. Alternatively, if the cards are installed in a networked VM600 rack (that is, a rack containing a CPUM card being used as a ‘rack controller’), they can be configured in ‘one-shot’ mode using an Ethernet connection between the computer running the VM600 MPSx software and the CPUM. All major parameters concerning the speed and vibration channels processed by the cards can be configured. This includes the input of sensor characteristics, the choice of the type of vibration monitoring to perform, the definition of measurement units, rectification (qualifier) types, alarm levels and so on.

VM600 MPS2 software – trending (visualisation)

The VM600 MPS2 software package also supports the trending and visualisation of data for MPC4, MPC4SIL, AMC8 and MPC1 cards installed in a networked VM600 rack (that is, a rack containing a CPUM card being used as a ‘rack controller’). VM600 MPS2 adds additional data recording and display features to the basic configuration functionality of VM600 MPS1. With VM600 MPS2, the data measured can be stored in a database and recalled later for trend analysis. Up to 50000 data records can be stored using a cyclic ‘first-in-first-out’ method. (The period of time that database records can cover depends on the configured data acquisition rate.)

Configuration screen for an MPC4 card

Configuration screen for a processing channel of an MPC4 card

Note: The VM600 MPS2 software includes all of the functionality provided by the VM600 MPS1 software but with additional features for the trending and visualisation of data, such as plots.
VM600 MPS2 software plots
The following different charts can be displayed by the trending and visualisation package of the VM600 MPS2 software, in order to allow the display of live and/or historical measurement data or graphs for trend analysis.

1. Bar chart (live data)
Up to 8 bars can be displayed per page.
Direct access to other pages available.
The status of all bars on all pages can be seen at a glance.

Bar charts showing real-time display of monitored signals

2. Strip chart (live data)
Up to 16 lines can be displayed per page.
Direct access to other pages available.
The status of all lines on all pages can be seen at a glance.
Zoom facilities and print functions are also available.

Strip charts showing real-time display of monitored signals
3. Trend chart (historical data)

Feature available for analysis of historical data acquired at the user's request. Up to 16 lines can be displayed. Zoom facilities and print functions are also available.

4. Long-term (averages) trend chart (historical data)

Up to 16 lines can be displayed. Zoom facilities, print functions and data export facilities are also available.
SUPPORTED DEVICES

The following devices are supported by the VM600 MPSx software:

- MPC4 and IOC4T machinery protection card pair
- MPC4SIL and IOC4T machinery protection card pair
- AMC8 and IOC8T analog monitoring card pair
- MPC1 and IOC4T machinery pulsation card pair

Note: The VM600 MPSx software supports MPC4, MPC4SIL and AMC8 cards by default, while support for the MPC1 pair is a purchasable option (see the order option codes in Ordering information on page 6).

APPROVALS

Russian federal agency for technical regulation and metrology (Rosstandart):

- Pattern approval certificate CH.C.28.004.A N° 60224, dated 11.11.2015

HARDWARE REQUIREMENTS

Minimum computer configuration:

- 200 MHz 32-bit (x86) processor
- 32 MB system memory
- At least 200 MB of hard disk space
- 16-colour VGA display
- One 9-pin serial port (RS-232)
- Ethernet or Fast Ethernet network interface adapter (card)
- CD/DVD drive
- Optional 100 GB (or larger) backup media

SOFTWARE REQUIREMENTS

VM600 configuration software
MPSx

ORDERING INFORMATION

To order please specify

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<th>Type</th>
<th>Designation</th>
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<td>VM600 MPS1 configuration software for machinery protection systems</td>
<td>209-500-100-SSS/Codes</td>
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<tr>
<td>MPS2</td>
<td>VM600 MPS2 configuration and trending software for machinery protection systems</td>
<td>209-500-200-SSS/Codes</td>
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Notes
'SSS' represents the software version.

Use the codes below to specify order options in the format 209-500-x00-SSS/Code 1/Code 2/Code 3.

Examples
A complete ordering number is 209-500-100-SSS/01/03/00, which orders the VM600 MPS1 software in English, with three hard copies of the VM600 MPS1 software manual (without support for the MPC1 card).

A complete ordering number is 209-500-200-SSS/01/01/00, which orders the VM600 MPS2 software in English, with one hard copy of the VM600 MPS1 software manual and one hard copy of the VM600 MPS2 software manual (without support for the MPC1 card).

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<th>Code</th>
<th>Feature</th>
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<td>Note: A maximum of 9 sets of user manual(s) can be ordered.</td>
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RELATED PRODUCTS

ABE04x  VM600 system racks : Refer to corresponding data sheet
ABE056  VM600 slimline rack : Refer to corresponding data sheet
AMC8 and IOC8T  VM600 analog monitoring card pair : Refer to corresponding data sheet
CPUM and IOCN  VM600 modular CPU card and input/output card : Refer to corresponding data sheet
MPC4 and IOC4T  VM600 machinery protection card pair : Refer to corresponding data sheets
MPC4SIL and IOC4T  VM600 machinery protection card pair with SIL safety approval : Refer to corresponding data sheets
MPC1 and IOC4T  VM600 machinery pulsation card pair : Refer to corresponding data sheets
Meggitt Sensing Systems (Meggitt SA) Software

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