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PME

The PME range of products offer different types of modules for recording of all measured quantities relevant to processing.



PME - The Industrial Measurement Signal Conditioners Linked to a Fieldbus

Flexibility and increasing cost pressures have been an important topic for years when it comes to **monitoring of production and assembly processes** and the automation of test rigs. This situation forces companies involved in plant and equipment construction to use as many rationalisation measures as possible. Development in the field bus sector offers the potential for innovation and cost saving. In order to be able to make use of this potential, signal processing must satisfy new demands. The solution for signal processing is called " **PME**" - the **intelligent product line for industrial measurement technique**.

The appropriate modules for your measurement task

The **PME range of products** offer different types of signal conditioners for recording of all measured quantities relevant to processing, such as **force, displacement, pressure, temperature, speed, frequency and torque**.

Due to its modularity the PME system enables measured signals from different transducer types to be **conditioned uniformly**. All measuring modules come with an LCD display, keypad and a CAN interface, 4 digital I/Os, changeover analog output (+/- 10V, 4...20 mA, +/- 20 mA), 4 limit value switches, 2 peak value stores and 4 parameter set memories:

Our recommendation:
MP85A/MP85ADP FASTpress - The amplifier for monitoring fitting processes

MP01 - Multichannel signal conditioner
DC amplifier; 4 channels for voltage, current, and thermocouples or 2 channels for PT100 and resistors; Subcon5 connector; 0.1 accuracy class

MP30 - Single channel signal conditioner
600 Hz carrier frequency amplifier for strain gage transducers; 0.05...20 Hz filter; autocalibration; 0.03 accuracy class

MP30DP - Single channel signal conditioner

600 Hz carrier frequency amplifier with the same characteristics as MP30; however, with additional Profibus DP interface

MP55 - Single channel signal conditioner
4.8 kHz carrier frequency amplifier for strain gage and inductive transducers in full and half bridge circuit; 0.05 ... 500 Hz filter; 0.1 accuracy class

MP55DP - Single channel signal conditioner
4.8 kHz carrier frequency amplifier with the same characteristics as MP55; however, with additional Profibus interface

MP55IBS - Single channel signal conditioner
4.8 kHz carrier frequency amplifier with the same characteristics as MP55; however, with additional Interbus S interface

MP60 - Single channel signal conditioner for incremental transducers
Frequency measuring module for incremental transmitters and HBM torque flanges with frequency output; 0.05 accuracy class

MP60DP - Single channel signal conditioner for incremental transducers
Frequency measuring module with the same characteristics as MP60; however, with additional Profibus DP interface

MP07 - Supply voltage module for type T10F-KF1 torque modules
Supply voltage module for type T10F KF1 torque transducers.

MP70DP - Profibus interface
Gateway from CANopen to Profibus DP; up to 8 PME channels can be connected via CAN; enables gateway functions and mathematical functions to be realized.

Key Features

- Modular amplifier system consisting of self-supporting, intelligent modules for decentralist onsite measurement tasks, especially in production and assembly lines, large machines and for use in functional and performance testing set-ups
- Different types available for all common measurement quantities, e.g. SG transducers, inductive transducers, DC voltage, thermocouples, torque and speed transducers
- Manual operation of modules as well as operation via digital interface in conjunction with a PC incl. software possible
- Compact aluminum diecast housing for mounting on L-rails, along with industrial plug-and-socket connections and supply voltages (24V) simplifies installation and reduces expenditure on wiring
- Limit switches, peak value buffer and control inputs and outputs provided for monitoring tasks
- Bi-directional transfer of parameters and measured data via standardised CAN interface with CANopen protocol on each module
- Single- and multi-channel measuring modules also with Profibus DP and CANopen interface

ePLAN: Electrical engineering and project planning made easy

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In addition to the industrial amplifiers HBM provides the appropriate ePLAN macros. They allow **easy and error-free integration** of the instruments in the project planning of the automation environment.

ePLAN Electric P8 is an **engineering tool for modern CAE software** supported by a database and facilitates consistent **project planning, documentation and administration** of automation systems. ePLAN macros enable users to **easily integrate the process controllers in their project planning**. **Parts data, drawings and pin assignments** are available in ePLAN Electric P8 immediately after import of the macros.

The **free macros** are available on the **documentation CD** included in the process controllers' scope of supply and can also be downloaded here.

Product Literature

Language

Content Types

Title / Description	Language
Data Sheets	
PME - Data Sheet	English
Brochures	
PME - Brochure	English
Operating Manuals	
MP01 - Operating Manual	English
MP30 - Operating Manual	English
MP30DP - Operating manual	English, German, French
MP55 - Operating Manual	English
MP55DP - Operating manual	English, German, French
MP55IBS - Operating manual	English, German, French
MP60/MP07 - Operating Manual	English
MP60DP - Operating manual	English, German, French

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Title / Description	Language
MP70DP/DPS7/S7 - Operating Manual	English
Safety instructions	
PME modules - Safety instructions	English, German, French
EU Declaration of Conformity	
MP01 - EU Declaration of Conformity	Multilanguage
MP07 - EU Declaration of Conformity	Multilanguage
MP30 - EU Declaration of Conformity	Multilanguage
MP30DP - EU Declaration of Conformity	Multilanguage
MP55 - EU Declaration of Conformity	Multilanguage
MP55DP - EU Declaration of Conformity	Multilanguage
MP55IBS - EU Declaration of Conformity	Multilanguage
MP60 - EU Declaration of Conformity	Multilanguage
MP60DP - EU Declaration of Conformity	Multilanguage
MP70DP - EU Declaration of Conformity	Multilanguage
Software	
PME CAE data for Eplan Electric P8 This project is a macro-project and contains CAE data for Eplan Electric P8. **Date**: 08/2011 **Size**: 30 MB	Multilanguage
PME EDS files EDS files for PME (MP01, MP30, MP55, MP60, MP85). **Date**: 11/2011 **Version**: 1.01 **Size**: 33 KB	Multilanguage

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Title / Description	Language
PME FASTpressSuite CD PME assistant, firmware loader and USB driver (for Windows XP, Windows Vista and Windows 7/8/10) for comfortable setup and visualisation. For smooth operation of modules with CAN interfaces, use the PEAK USB-to-CAN dongle. All required drivers are included and will be installed during startup. This download includes: • PME-Assistant (V3.4.206) • PME-Firmware Loader (V1.1.7) • IPM data conversion (V1.1) ... and the demo versions of: • EASYteach (V1.0.5.10) • MP85A-Toolkit (V1.0.5.12) • EASYmonitor CE (V1.1.1.1) • INDUSTRYmonitor (V1.2.1.10) You can start those demo versions up to 25 times for free. To buy the full licence please visit the HBM shop or ask your local HBM representative. **Date**: 07/2015 **Version**: 1.50 **Size**: 163 MB **Related Documents**: PME FASTpressSuite CD	Multilanguage
PME Firmware for hardware version 1.xx For PME hardware version 1.xx (MP01-MP70) and all MP85/DP! For newer devices, please use the PME firmware for hardware version 2.xx on this page. Archive including all current firmware files for modules of the PME series. The appropriate firmware loader is part of the PME assistant. The zip file has to be extracted into the PME assistant directory. It includes following firmware versions: • MP01 Version 1.12 • MP30 Version 1.04 • MP30DP Version 1.04 • MP55 Version 1.42 • MP55DP Version 1.42 • MP55DPS6 Version 1.42 • MP60 Version 1.18 • MP60DP Version 1.18 • MP70DP Version 1.05 • MP70DPS7 Version 1.05 • MP70S7 Version 1.05 • MP85 Version 1.10 • MP85DP Version 1.10 **Date**: 05/2007 **Version**: HW1 **Size**: 887 KB	Multilanguage

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Title / Description	Language
PME Firmware for hardware version 2.xx For PME hardware version 2.xx (MP01-MP70) and all MP85A/ADP! For older devices, please use the PME firmware for hardware version 1.xx on this page. Archive including all current firmware files for modules of the PME series. The appropriate firmware loader is part of the PME assistant. The zip file has to be extracted into the PME assistant directory. It includes following firmware versions: • MP01 Version 2.00 • MP30 Version 2.02 • MP30DP Version 2.02 • MP55 Version 2.06 • MP55DP Version 2.06 • MP55DPS6 Version 2.02 • MP60 Version 2.00 • MP60DP Version 2.00 • MP70DP Version 2.00 • MP70DPS7 Version 2.00 • MP70S7 Version 2.00 • MP85A Version 2.36 • MP85ADP Version 2.36 • MP85A-S Version 2.36 • MP85ADP-S Version 2.36 **Date**: 07/2013 **Version**: HW2 **Size**: 2 MB **Related Documents**: PME Firmware for hardware version 2.xx	Multilanguage
PME Profibus DP PROFIBUS DP master file for PME: (MP30DP, MP55DP, MP60DP, MP70DP, MP70DPS7,MP85MP). German version: GSD file, English version: GSE file. **Date**: 07/2013 **Version**: 1.20 **Size**: 30 KB	Multilanguage

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MP85A FASTpress Industrial Amplifier

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