

New PM592-ETH boosts PLC AC500

Application range extended to Condition Monitoring and more

Superior Performance
Biggest Memory 4GByte
Rapid Communication
and Fieldbusses

PM592-ETH is the top PLC of AC500 range.

With highest speed, largest memory, extra memory by built-in 4GByte flash disk, file management, web visualization and the various network interfaces this PLC surpasses other PLC.

Exceptional High Speed

PM592-ETH is about 1000 times faster in floating point calculations than PM573-ETH.

PM592-ETH outperforms competition at least by factor two. The highly-advanced HW architecture and a Floating Point Unit FPU provide speed advantages for complex controls like wind turbines, electronic cam switches with clamp-clamp time of approx 2ms and motion control.

Typical PLC operations will run in incredible speed. It is no problem to control a machine and supply a Human Machine Interface via built-in web server to any place in the world over internet.

Easy Upgrade to More Productivity

The amazing concept of ABB's Terminal Bases allow machine owners and OEM rapid performance upgrades. Simply remove the existing CPU and snap-on PM592-ETH. After installation of adapted program with new functionality the machine can produce more, enabled by better, faster control.

Biggest Memory Capacity

PM592-ETH offers 4MByte of user program and 4MByte data memory. Programmers can create large programs with lots of IO and variables. These build the path to more productive machines, for higher efficiency.



Built-in Flash Disk – 4GByte Memory

Non-removable and non-volatile flash disk – a very tough safe for logging data as in wind turbines and decentralized water and building applications. Built-in means safe from theft and fast.

File and directory management is programmed easily with engineering tool PS501 Control Builder Plus.

Web Server: Perfect Remote Control

The HTTP web server provides an operator interface for world-wide access to AC500. Either an internet browser out of the development office or locally HTTP-enabled HMI like ABB's CP600-WEB communicate with AC500.

The largest benefit is the easy project maintenance. The application - including HMI code - is stored in the PLC only. Configuration of the HMI is done with PS501 Control Builder Plus.

The HMI benefits from the very large exclusive web server memory of 8MByte. Better graphics and clear, useful explanations can be stored for better HMI – for more productive machines and for more safe operations.

Superior Performance and Biggest Memory, Rapid Communication and Fieldbusses

Multiple Communication Techniques

The superior performance enables gateway functionality between major communication interfaces.

- PROFIBUS
- CAN
- DeviceNET
- Ethernet
- MODBUS RTU
- PROFINET
- CANopen
- CS31
- EtherCAT
- MODBUS TCP

HTTP, FTP, SMTP, SNTP

The Ethernet port of PM592-ETH offers a suite of built-in Internet Protocols:

HTTP

Web server for worldwide access to AC500 for system integration, supervision and remote maintenance.

FTP

File Exchange using internet browser or your favorite FTP clients. Works great with the flash disk.

SMTP

sends emails and up to ten attachments. One application is alarm messages with pre-defined text and attachments showing conditions of the machine.

SNTP

for time synchronization of machines where AC500 acts as client (user) or master (distributor). Timing signal sources can be GPS, DCF77, MSF or WWV, WWVB und WWVH. For DCF77, ABB offers an application description and sample. Telecontrol: IEC60870 IEC60870-5-104 for substation automation.

Best Programming Tool with Debugging

PS501 Control Builder Plus programs PM592-ETH according to IEC61131-3, using CoDeSys. ABB's extended watch list feature reduces engineering and commissioning time dramatically. Sample Trace makes commissioning easy. Over 20 libraries are included for faster programming and more quality.

Ease of Operations

A LCD is built-in to display status messages. With the easy-to-operate keypad engineers may request status info and enter configuration data like IP address. LED inform about Power, RUN-mode and error. Many details can be checked and configured without a PC.

Pre-Wiring and Easy Snap-On

PM592-ETH uses regular AC500 terminal bases which can be installed first without CPU. So the CPU is protected from electric discharges or mechanical impacts. When wiring is complete, the module is mounted by easy, convenient snap-on.

PLC is better than Industrial PC

Experience show that long-time availability of PLC is higher than that of industrial PC and their office/consumer operating system. PLC is also a more robust alternative to such PC.

Order Code

PM592-ETH	1SAP150200R0271
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