MANUFACTURER DOCUMENT PACKAGE

# Manufacturer's Manual

Reference package for procurement and maintenance review

EMERSON

## ME98MBP001

**PAC MACHINE EDITION 9.8 PROFESSIONAL DEVELOPMENT SUITE**

Used with the applicable PAC Machine Edition configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Emerson PAC Machine Edition product data sheet

# PAC Machine Edition

## Integrated Software for PACSystems Devices

**PAC Machine Edition (PME) provides PACSystems users an integrated environment to configure and maintain control applications. This software supports a wide range of devices such as HMIs, PLCs, VFDs, servos, and edge devices. PME utilizes a common user interface, drag-and-drop editing, and a rich set of development tools to develop control applications efficiently.**

**PME increases productivity by reducing the time and resources needed for programming, commissioning, and monitoring.**




### Improve Efficiency through Tight Integration

In addition to sharing common development tools, all PAC Machine Edition components — View, Logic Developer, and Motion Developer — share a common database and common objects across applications. Including logic, scripts, and animation, PME allows for control logic in one integrated development environment. This establishes an entire automation portfolio which is programmed, configured, and maintained by a single toolchain. So once a variable is created, it can easily be used in all other components of the project. PAC Machine Edition allows the user to open multiple PAC Machine Edition sessions on one PC and then connect each session to a controller simultaneously. This allows the user to view multiple, operating application programs at the same time, from a single PC.

### Boost Productivity through Reusable Modules

Combining the best of traditional programming and graphics applications, PME features Object Oriented Reusability to save time during configuration. Users can build applications rapidly with user defined function blocks, user defined types, and control modules. These reusable type definitions allow the development of controls logic to be done in an object oriented fashion.

### Add Flexibility and Scalability in Control Environments

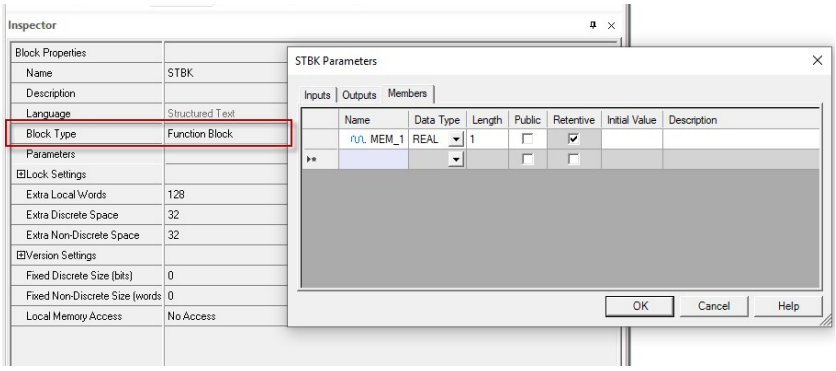
Seamless integration with Change Management allows end users to safely configure and manage small to large applications. PME also supports multiple targets in a single project, allowing you to scale appropriately based on the application. Due to it's support of extensive communication protocols, PME excels in a variety of industrial markets segment, including water/wastewater, oil & gas, power renewables, mining and marine. Built-in diagnostics allow users to display controller status, timestamp data and faults. In addition, Logic Developer provides comprehensive configuration for controllers and I/O. The result is a flexible system that can meet your control needs.

### The Right Programming Languages

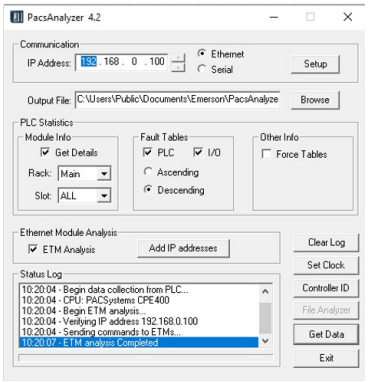
PME supports IEC-1131-3 editors including ladder logic, structured text, and function block diagrams. This gives you the freedom to use the best language for your application.

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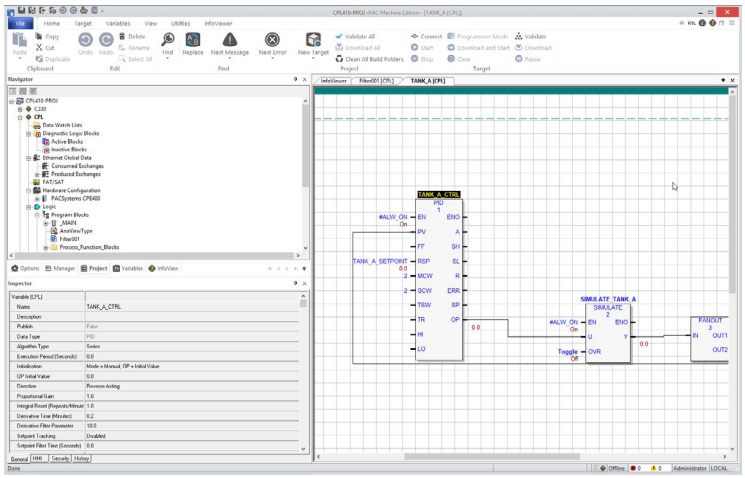
| Feature | Benefit |
|---|---|
| **Single Toolchain** | • The entire automation portfolio is programmed, configured, and maintained by a single toolchain |
| **Fully Integrated Development System** | • Allows building HMI panels and controls logic in one integrated development environment |
| **Hardware Configuration** | • Configure controller and I/O |
| **Control Logic Configuration** | • IEC-61131 compliant<br>• Structured text, relay ladder diagrams, function block diagrams, native C blocks support<br>• Over 140 blocks with over 30 advanced blocks for demanding applications |
| **Object Oriented Reusability** | • Build applications rapidly with preconfigured objects from the Tool Chest, a storage system for objects including their associated logic or HMI elements and data structures |
| **Built-in Diagnostics** | • Allows users to display controller status, timestamp data and faults |
| **Common Data Base** | • Improved productivity with share tags across multiple targets |
| **Common Tool for Control and Visualization** | • Simple integration for asset management |
| **Multiple Sessions** | • Increased system uptime by reducing commissioning time and debugging |
| **PROFINET Integration Tools** | • Fast & simple configuration and diagnostic of distributed I/O networks |
| **Supported Communication Protocols** | • EGD, SRTP, Modbus, DNP3, and OPC UA (Non-Transparent Server Redundancy) among others |




*User defined function blocks*




*Built-in diagnostics*



*PME Integrated Development Environment (IDE)*

## Product Offerings

| PAC Machine Edition Products | Features | | | | | | | | | | | | | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PACSystems RX3i & RX7i | PACSystems RSTi-EP | Series 9030 & Series 9070 | QuickPanel & QuickPanel+ | VersaMax | RIO VersaMax & 90-30 | View Runtime | View Development | PC Control Runtime | PC Control Development | View OPC Driver | Process Block Library | View and PC Control Points | |
| **Professional Development Suite*** | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | O | ✓ | 700 a 1500 (O), 8000 (O) | MEMBP001 |
| **Lite Development Suite** | | ✓ | | ✓ | ✓ | ✓ | | ✓ | | ✓ | | | None | MEMBL001 |
| **QuickPanel CE Development Suite** | | | | ✓ | | ✓ | | ✓ | | ✓ | | | None | MECSCEMK |

✓ – Included in product. O – Optional feature (selection made in configurator)
*Professional Development Suite has 700 points in the base product. There is an option to increase the points to either 1500 or 8000. The View OPC Driver can be ordered as an option to the Professional Development Suite.

## Ordering Information

| Part Number* | Description |
|---|---|
| **MECSCEMK** | PAC Machine Edition QuickPanel (CE) Control Development Suite |
| **MEMBL001** | PAC Machine Edition Lite Development Suite |
| **MEMBP001** | PAC Machine Edition Professional Development Suite |

*generic part numbers, actual number will vary based on version and options selected (ex. ME98MBP001) use Sales Force configurator to identify part number