

PLT-E1 Keyboard Emulation (MADAM S)

Efficient Maintenance – A Permanent Challenge

Conservation of value and protection of investment

Only a long service life for a process automation system ensures high profitability. Process computers and operator stations on the process control level not only age faster than boilers, furnaces and machines, but neither can they keep up with the lifetime of the plant automation equipment.

Moreover, maintenance costs shoot up, and obtaining spare parts for the workstation hardware becomes increasingly difficult as many proprietary systems are discontinued by the manufacturer.

Conclusion: The MADAM S operator stations of the process control level with the function keyboards are due for modernization.

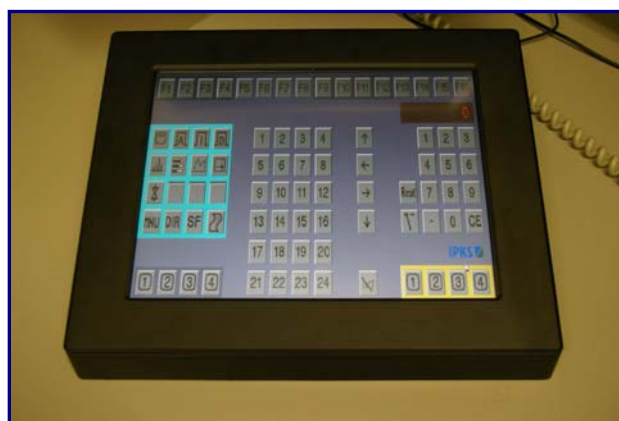
Our solution: The PLT-E1 keyboard emulation

The keyboard emulation developed by IPKS replaces the function keyboard of the TELEPERM process control level. The terminal emulation runs on standard computers based on Windows operating systems.

The PLT-E1 keyboard emulation communicates with the original MADAM S system over a serial connection, or with an MADAM S system running under the M2000 emulator over the local area network (LAN).

The keyboard emulation can be executed on the same WINDOWS computer, the same display where the terminal emulation is running or on a second display.

The keyboard emulation can be installed also on a touch screen panel pc (Please see figure below).



And what are the benefits?

- ✓ Plug-compatible replacement of the out-of-date and discontinued original equipment without risks
- ✓ Use of commercial off-the-shelf technology (Windows computers, Windows XP operating system, TFT monitors, TouchScreen Panel PC).
- ✓ Reduced maintenance and modification costs
- ✓ Easy-to-use, familiar user interface (now with mouse device instead of a light pen)
- ✓ Additional functions such as multi-screen operation, window mode, full-screen mode, visualization over the Intranet

With the use of standard technology you directly benefit from new developments in information technology. Individual components and functions can be replaced and expanded at any time within the life cycle - always with the best technology that is available today.

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Technical Highlights

PLT-E1 keyboard emulation

The PLT-E1 keyboard emulation emulates the function scope of the Siemens function keyboard unit. PLT-E1 is a 32-bit window application based on the following operating systems:

- **Windows 2000**
- **Windows 200x Server**
- **Windows XP / VISTA**

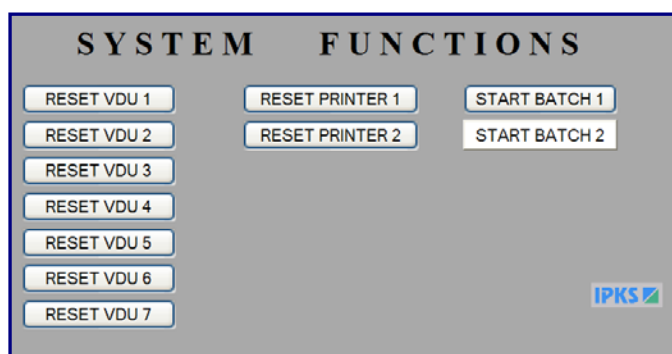
Operating modes

Flexible adaptation to different operating conditions is a characteristic feature of our PLT-E1 keyboard emulation software:

- Window mode or full-screen mode
- Plug-compatible connection via serial lines
- Connection via LAN (with M2000 only)
- Local window operation (Windows) on the M2000 console (with M2000 only)



Standard layout of the function keyboard PLT-E1



Standard layout of SYSTEM FUNCTIONS

Additional functions

In addition to the function scope of the original function keyboard, the PLT-E1 emulation offers functions such as:

- Multi screen operation
- Full screen or window mode
- Variable, parameter driven layout
- Password protected parameter definition
- Adjustable **SYSTEM FUNCTIONS** menu offers the opportunity to activate more (further) functions per mouseclick, e.g. ORG, MADAM S or Windows functions.
- The PLT-E1 emulation is able to send additional command types
 - ... to the TE2000 terminal emulation of the system console: ORG / MADAM S commands (e.g. RESET xxx, ./START xxx)
 - ... to the Windows master machine Batch or EXE files will be executed.

Application

- One-to-one replacement of a SIEMENS function keyboard. Connection via the existing serial line implementing a stand-alone unit in window mode or full-screen mode. The keyboard is installed by changing the serial connection.
- Migration of the MADAM S system to Windows 2003. Connection to the Windows system over the LAN. It is possible to run several keyboard emulations on a single Windows computer in order to allow multi-window and multi-screen operation (e.g., one operator station with two monitors).

For further information, please contact our branch in Erlangen. We will be pleased to help you with the commissioning of your system and can offer you a fixed price hotline service. Please don't hesitate to contact us if you have any queries!