Product Information PEL 3000 - Overview **PermanentEventLogger**

Complete system for logging, digital preservation and analysis of

- Faults •
- Messages
- Data

from Siemens S7 PLC or compatible (Yaskawa, etc.). Storing the captured data in a SQL database over an adjustable period.

SCADA system for recognition and evaluation of systematic errors, malfunctions, operator intervention, use and availability of the system and also online access to operating data acquisition.

No programming necessary! Specification of the data to be recorded without programming or config uration of an OPC server only by defining the signals in Excel tables and reading the configuration data using a USB stick.

Output of captured faults, messages and data as a CSV file on a USB stick (or network drive). Course with USB stick:

- connect USB Stick
- trigger data export via bit in the PLC
- wait for feedback 'Export finished'
- _ take out USB stick

Optionally connect a touch screen monitor to issue:

- Fault-, message- und data history .
- Fault rate •
- Down times
- Availability •
- Graphical representation of selected signals .
- Monitoring of events .

Timeline selectable for list and graphic representation:

- Actual, last or shift before last shift
- Select time interval by days

OEE (Overall Equipment Effectiveness) to display the productivity of the machine (optional). Determined from:

- Availability •
- Effectiveness •
- Quality

Limit monitoring (optional):

- immediate messages or •
- moving average •
- alarm signal to PLC •
- eMail/SMS notification

Recipe management (optional)



Audit trail (optional)

Counter 06

DINT DINT

16.0

20.0

24.0 Counter_07

System settings and production specifications can only be changed by authorized employees.

Gesamtteile [Stück]

Gesamtteile IO [Stück]

Total parts Produced [parts]

Total parts OK [parts]

One and two way authorization as well as 2 and 4 eyes principle in any combination.

Groups and users are managed directly on the system and are automatically synchronized across all machines. All inputs and movements in the system are recorded user-specifically, saved long-term and can be evaluated directly according to different criteria.

The dialog language can be selected between German, English or Spanish, or other languages on request.

The **PEL Service** is running as a service under Windows in the background. The time display can be done either in the AM / PM or 24 hour format.

Several PEL can be monitored from a central control center PC





Details

Features Standard System

- maintenance free, fanless embedded PC
- Logger runs in background as Windows service
- Connection of PLC Siemens S7 or compatible (e.g. Yaskawa)
- Communication via TCP/IP with CPx43 interaface
- Detection of alarms, messages and data
- Configuration via Excel spreadsheets
- Import and export of data via USB stick
- Auto export at adjustable times to network drive
- Online Host access to production data (SCADA)
- Data export:
 - Alarms, messages and data in chronological order
 - Fault rate
 - Down times
 - Availability consideration of shift times
- Online representation of data (Monitoring)
- Notification system via eMail or SMS
- Language free selectable (texts, labels, dialogs, export files) ... and much more

Extensions, optional

- Production analysis OEE
- Quality assurance QA
- Limit Monitorina
- Audit Trail with user and group management
- Recipe management
- Configurable as HMI solution
- Control of large displays via DISP 3000 system
- Control of display cubes (in connection with the PLC)
- Connection of camera systems
- Custom specific extensions (please contact us) ...

Computer system

- Fanless embedded PC with TouchPanel 15", IP65 Frontpanel, CPU Intel Atom® to Xeon®, ≥ 4GB RAM
- Industrial SSD drive 250GB or more
- Connections: Mouse, keyboard, 2* Gigabit LAN, USB 2.0/3.0, VGA, serial RS232/422/485
- Power supply DC 12-30V, operating temperature 0 .. 55° C
- Operating system Windows 10 IoT, LTSC 2019, 64 Bit,
- Database Microsoft SQL Server Express Advanced Edition
- or: nearly every modern custom specific PC (please contact us) ...

Analysys: history



OFF 180.0 mi target 97.0 % 69 120 63 573 target 85.0 % 815 820 target 98.0 % 1,635 on: 1.27.2.0, DB Ve

