

PLab - the easy way of data acquisition

PLab is an easy-to-use Windows application for real-time data acquisition, calculation and visualization. Numerous data sources are possible (analog, digital, CAN, Ethernet ...).

The focus of the **PLab** development is less on a big amount of features, than on the easy application handling. This is achieved by a reduction to the essentials. Clear application structures, standard user interface and predefined layouts result in a fast learnability. If the limits of **PLab** are exceeded, the job can be done by **MLab**.



Features

General

- Windows XP optimized application
- Modern application layout with ribbon and tab windows
- Data acquisition of any number of analog and digital channels
- Measurement hardware: Commercially available common data acquisition cards and devices.
- Supported interfaces ISA, PCI, PCI Express, USB, Firewire, serial, PCM.
- Support of digital counters and external triggering.
- German and English interface available

Configurable channel properties

- Dataset name, label and unit
- Calibration via supporting points or factor and offset.
- Grouping of channels
- Comments and additional informations
- Change of data format
- Scaling and color specification for graphic display

Data storage

- Storage of any number of channels
- Accurate capturing of individual measurements
- Online data file change
- Manual and automatic naming

Graphical display

- Any number of graphics pages can be defined
- Predefined graphic page layout
- Any combination of following graphics objects:
 - Time diagram
 - Numeric tabular output
 - Circular gauge
 - Bar diagram
 - Number fields
 - x(y) diagram
 - Switch object
 - Input objects (Numbers, text, slider)

Triggering

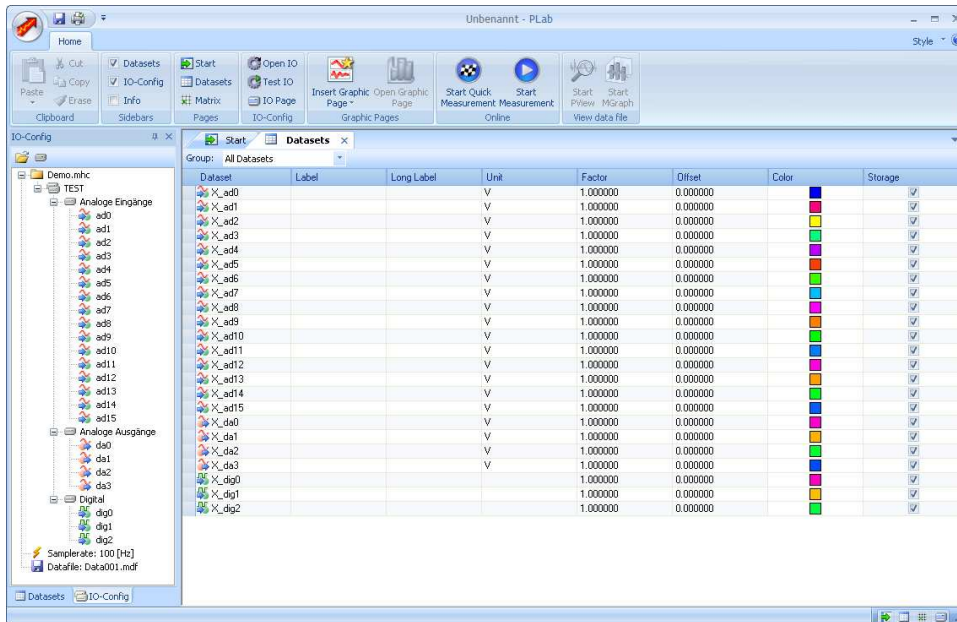
- Triggered storage control
- Comfortable definition of the trigger over a matrix structure

Calculations

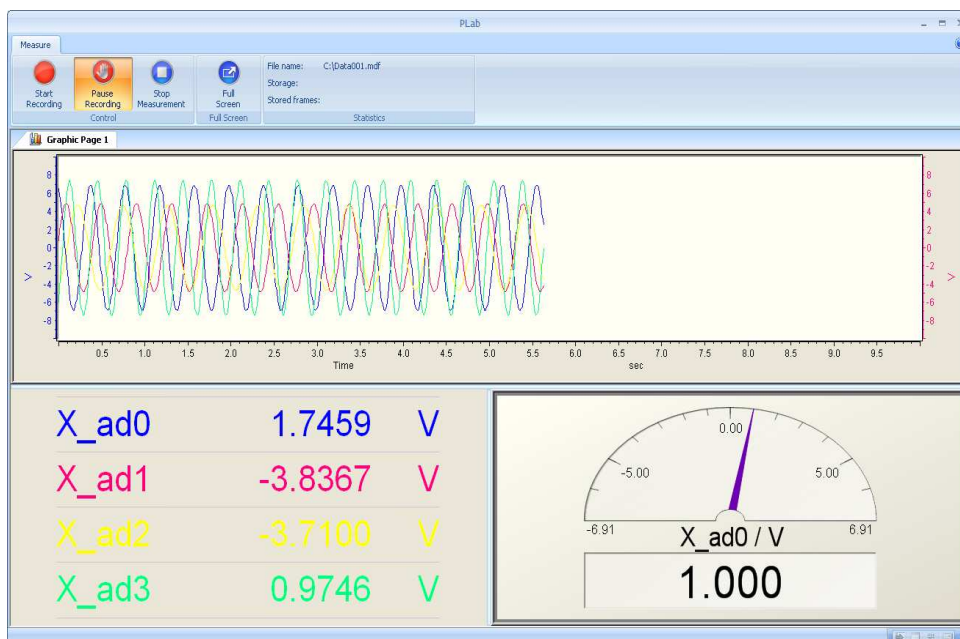
- Comfortable definition of formulas
- Numerical and boolean operations:
 - Elementary arithmetic
 - Trigonometric functions
 - Logarithmic / exponential functions
 - Absolute value, round, sign function
 - Constants (Euler e, Pi)
 - Conversion from degrees to RAD and vice versa
- Moving averaging
- Calculations directly in the datasets

Samples of the application user interface

Table-based dataset editing



Online graphics on several pages with pre-defined layouts



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