

Trend Analyzer

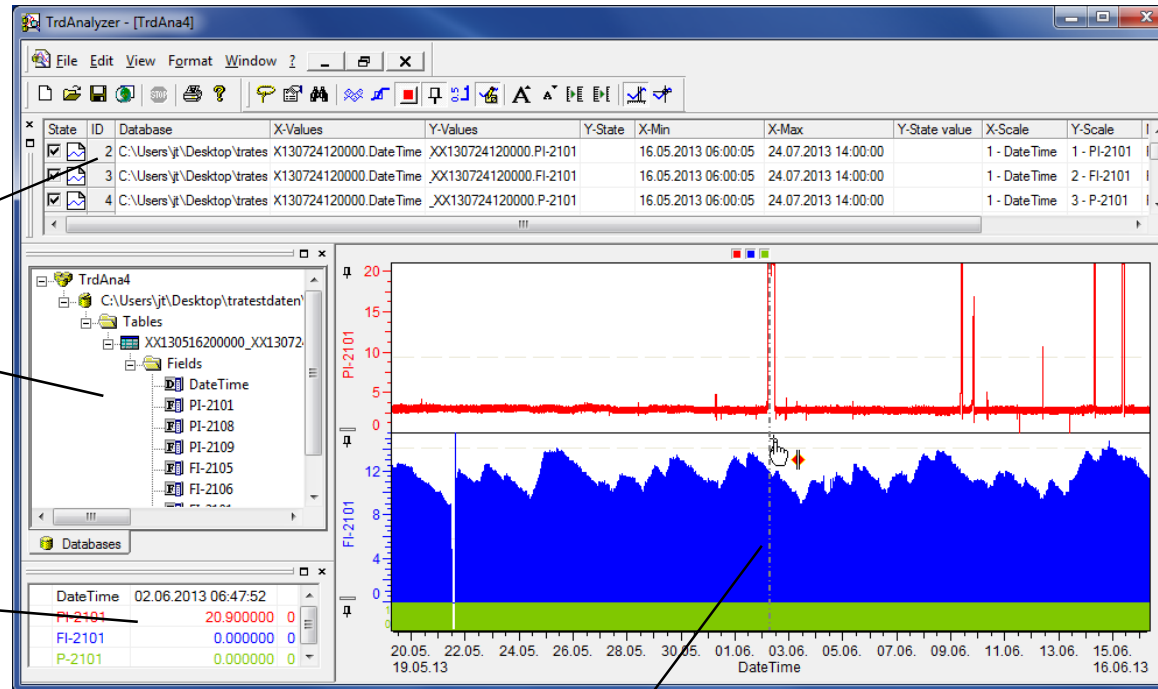


Document, analyze, discuss large data curves from measured-value archives (text files, databases, WinCC flexible, zenon)

Trend Analyzer shows the quality of production processes, and supports troubleshooting.

Windows

- Several **trend displays** to which the other windows are assigned can be processed in parallel
- The trends of a display are combined in the **curve configuration** window, and the scales labeled
- **Database** window in which the archives are selected and can be simultaneously used as **data sources** for a trend display
- The **curve value table** lists the time stamp, measured value, status, and inscription for a particular curve
- The **ruler window** displays times and measured values for all curves at the ruler position
- a **cool bar** is provided for paging through a diagram



1,2 Million Data per Curve!

Trend displays

- Up to 31 value scales: binary, linear, logarithmic, cyclically angular degree
- Interactive scale positioning next to or above each other
- 2 scales for test duration or absolute time for interactive comparison of curves
- Analog and binary value curves combined in the same display
- Striped display for curve groups
- x over y display with time characteristic (interactive phase diagram)
- Ruler for all scales and curves
- Equidistant auxiliary lines per scale for improved qualitative readability
- Overview bars for comparison of curve section and measuring interval
- Scale inscription with any font

Data sources

- Any csv-formatted text files
- Databases (ACCESS, ODBC)
- text files exported from archives of WinCC flexible, ProTool (Siemens) and Zenon (Copa-data) control systems
- A wizard converts to the local format, and also imports several files with the same format
- Join of text files with same time interval to one data table

Functions

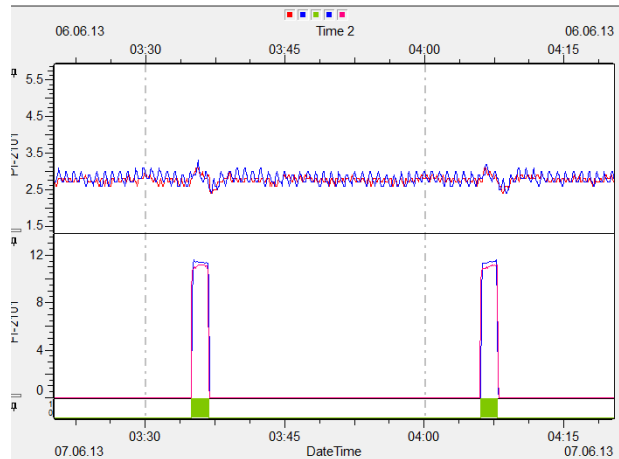
- Free assignment of curve groups to scales
- Lasso zoom with undo step
- Direct zoom on the value and time scales
- Curve capturing function
- Curve comparison with freely shiftable curves
- Searching for measured value exactly or with tolerance band
- Curve computer with standard arithmetic and trigonometric functions, numeric and logic operators, integral, floating mean value

Download free *Trend Analyzer* Release 3.1 test version with demo database and training videos from www.icsgmbh.com



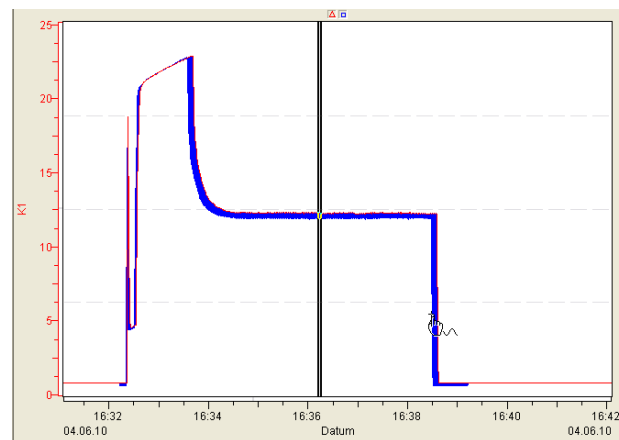
Trend Analyzer application examples

1. Comparison of intervals



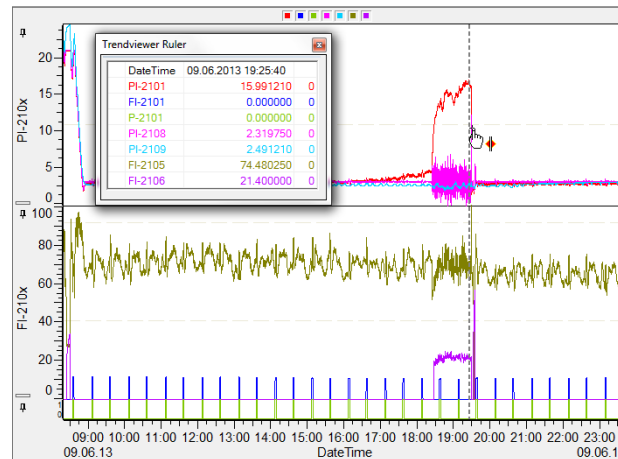
Pressure and frequency curves are compared using two time scales above and below the chart.

2. Setpoint/actual-value comparison



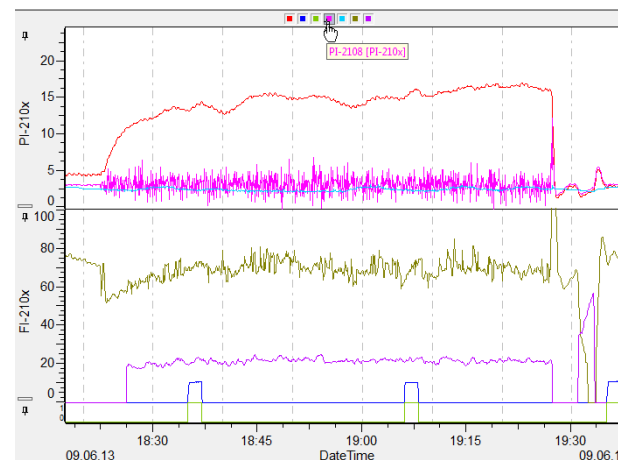
The section of an actual-value curve (red) is compared with a setpoint curve (blue). The small deviation is emphasized by flooding.

3. Data analysis 1



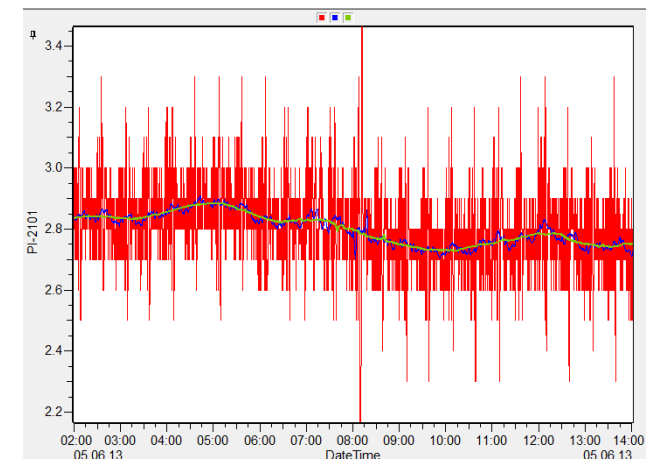
Measured values of all curves in a chart are shown using the x-scale ruler.

4. Data analysis 2



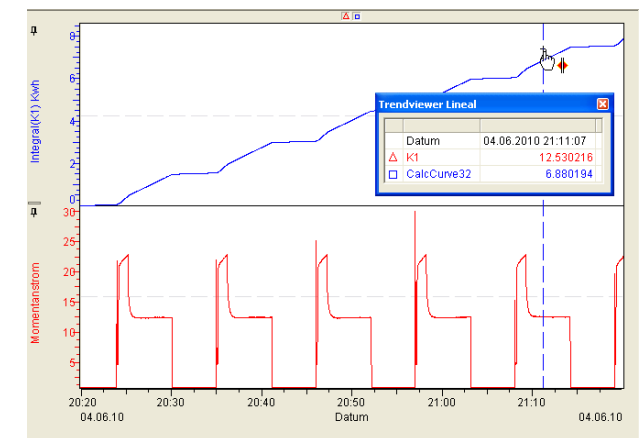
A detail of the above chart is enlarged seamlessly using the zoom function on the time scale.

5. Floating mean value



Actual-value curve (red), mean daily curve (blue) and mean weekly curve (green) combined in one diagram.

6. Integral



The integral (blue with logarithmic scale) is generated for one hour above the actual-value curve. The integral curve is read using the ruler.