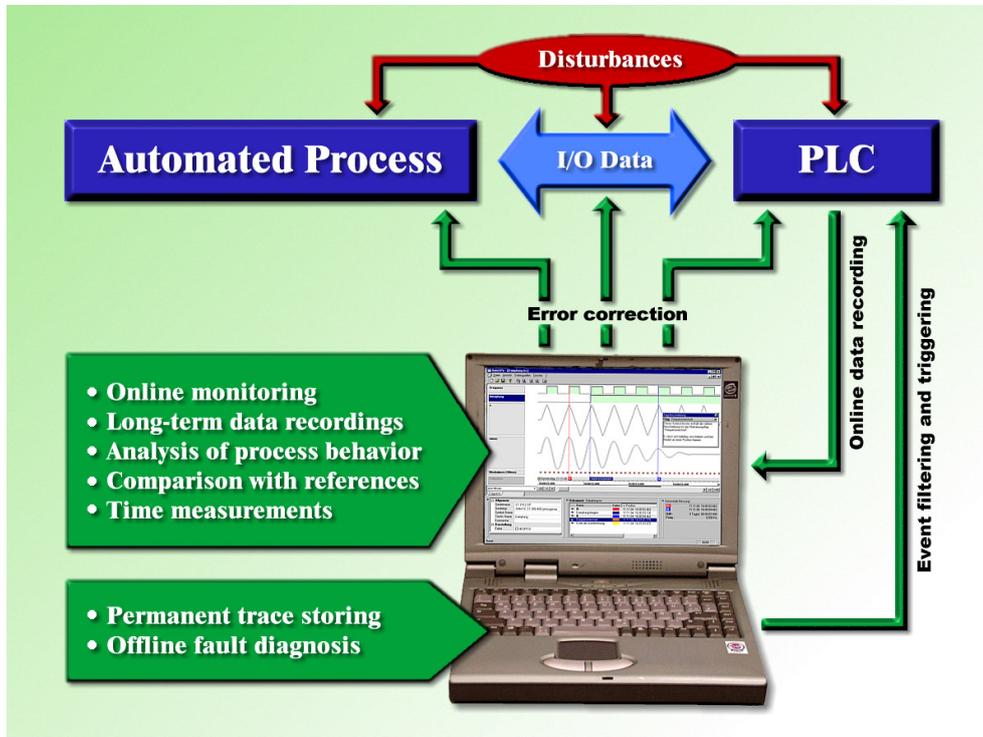# Analyser AutoSPy
Signal Recording, Analysis and Error Diagnosis for PLC Applications

Disturbances may have bad impact on your automated process, the controller (PLC) or the I/O data communicated between them. Use Analyser AutoSPy to monitor all relevant signals online, archive them in long-term recordings and find interesting process periods with event filtering and triggering. Compare with reference traces, measure significant times and search for violations of specification in offline mode to easier detect and correct errors and thus improve your process maintenance.

Diagnose Sporadic Malfunctions
Detect rare errors using long-term recordings and trigger mechanisms, isolate their causes with help of search functions and powerful analysis scripts.

Parameterize und Optimize
Minimize traversing times of transport systems, adjust control loops and speed up commissionings by using measuring and analysis functions.

Log the Course of Process Events
Create or update printed plant documentation, mark and comment relevant events or sequences in recorded signal traces.

Use Teleservice
Save travel costs by narrowing down possible error causes in case of service, using standard communication hardware for remote diagnosis.
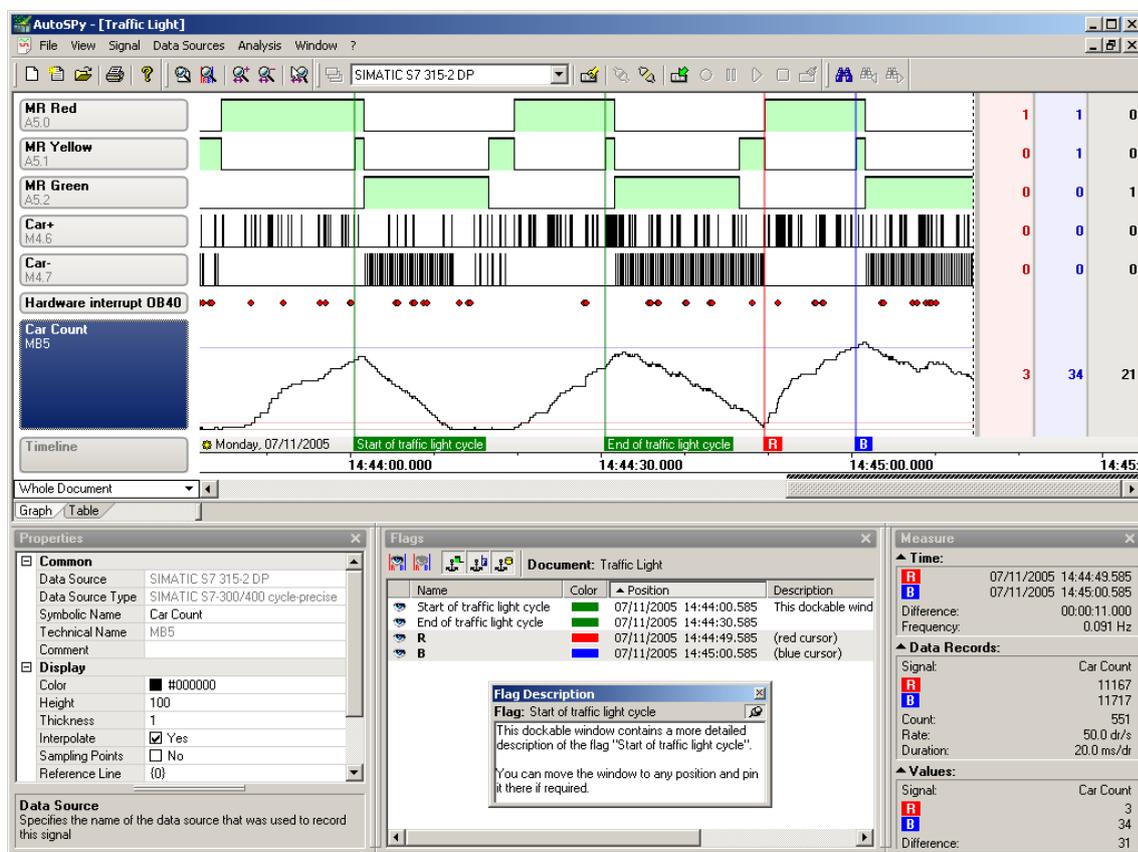
Support Education and Further Training
Simplify learning of PLC programming: view even complex event sequences clearly and checkably visualized, test and validate your PLC applications.

The software AutoSPy consists of one central base module which can be freely extended by various device drivers for signal recording from controllers and other data sources. See the most **important features at a glance**:

- ✔ base module can be freely extended by plugins (device drivers or visualization add-ons)
- ✔ records multiple devices (controllers) per document simultaneously
- ✔ displays signal data in individual graphical or tabular form
- ✔ arranges signals in a stack (one upon the other) in diagram view for easier comparing
- ✔ special hierarchical navigation bar for easy trace scrolling even in long recordings
- ✔ flags for marking and describing important events in the trace
- ✔ quick measurements of time spans, frequencies, amplitudes and sample rates via cursors
- ✔ searching particular states, edges or thresholds in signal data using concatenated conditions
- ✔ user-defined Visual Basic Scripts enable complex data analyses
- ✔ comfortable printing function for generating documentation from signal traces
- ✔ signal data can be exported to other data processing applications, e. g. Microsoft Excel
- ✔ free standalone viewer software for watching, marking and measuring signal trace documents

Developer:

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Currently available **AutoSPy device drivers** are:

- ✔ Device driver SIMATIC S5 cycle-precise
- ✔ Device driver SIMATIC S7-300/400 sample-precise
- ✔ Device driver SIMATIC S7-300/400 cycle-precise
- ✔ Device driver LabJack U12
- ✔ Device driver OPC Data Access
- ✔ Device driver UNIGATE CL

Please find a fully functioning **demo version** on our website and benefit from AutoSPy today!

Analyser AutoSPy®
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