DataLogger

The DataLogger Add-On serves for the recording and graphical display of data and measurement values of longer processes. To prevent data loss during power failures, data is safely buffered in the SRAM and kept in the file system of the control (RamFile). For analysis in other systems, the recorded data can be exported in different file formats. The Add-On is designed as a two-CPU solution, however, it can also be uses as a single-CPU solution.

This Add-On contains the program elements for the LASAL CLASS project, as well as the LASAL SCREEN projects for multiple resolutions.

SYSTEM REQUIREMENTS

Performance Index	A B C D E
Visualization Memory Requirements	
Code Size [KB]	1266
User Heap [KB]	458
LSE Project Size [KB]	207
SRAM [bytes]	configurable, see programming handbook
Process Control Memory Requirements	
Code Size [KB]	95
User Heap [KB]	90
SRAM [bytes]	120

AVAILABLE RESOLUTIONS [px]

800x480, 800x600, 800x1280, 1024x768, 1280x800, 1366x768

FEATURES

- Recording and graphic display of data
- Null voltage proof data buffer
- Export data in CSV and LDS file format (LDS = LASAL CLASS 2 DataAnalyzer)
- Export data in .bin format for later reimport into a different control
- Basic functionality of an oscilloscope (measuring, triggering, settings for the single channels)
- Communication between two CPUs

SOFTWARE VERSIONS

Design environment	LASAL CLASS 2, LASAL SCREEN, LASAL Machine Manager
Operating system	RTOS, Salamander