

PASconfig SDrive V1.2.1

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SD means Secure Digital

General

This document contains important information, which must be noted. This document also contains details of the changes made in the software tool from one version to the next.

System requirements

Operating system:	Windows XP/Vista/7
Processor:	Min. 1 GHz
RAM:	Min. 1024 MB
Available hard drive space:	Approx. 10 GB
To call up online help:	Browser, compatible with HTML 3.2 Recommended: Internet Explorer from Version 5.0, Netscape Navigator from Version 5.0
Screen resolution:	Min. 1024 x 768 pixels
Colour quality:	32 Bit
Font size:	Windows XP/Vista: Normal Windows 7: Smaller – 100% (default)

Languages

This version is available in the following languages:

- ▶ German
- ▶ English

Important information

Installation

Access rights

Write access to the installation directory is required in order to install and start the software tool.

To install under Windows XP and Windows 7, users must have administrator rights.

- ▶ Close programs
Please close all open programs on your PC before installing the software tool.
- ▶ Network installation
The software tool cannot be installed on a network drive.
- ▶ Do not remove the CD
Do not remove the CD from the drive during the installation process.

Known problems

Restricted to one client

- ▶ Ethernet connections to the motion control system are restricted to one client. If a new client connects to the ip address of the motion control system while there is an existing Ethernet client connected, the original client will lose the connection.

Changes in Version 1.2.1

New functions

New devices

The following devices are supported:

- ▶ PMCprotego S1-2-C, with varnished PCB
- ▶ PMCprotego S2-2-C, with varnished PCB

Changes in Version 1.2.0

New functions

New safety functions

- ▶ SLI – Safely Limited Increment
- ▶ SLP – Safely Limited Position

Freely configurable inputs and outputs

- ▶ For device types S1-2 and S2-2, inputs and outputs on the safety card can now be assigned specific functions in the Configurator:
 - Inputs can be assigned specific safety functions
 - Outputs can be assigned specific status messages from safety functions

Convert safety card

- ▶ Configurations of safety cards of device types S1 or S2 can be converted:
 - Device type S1 to device type S1-2
 - Device type S2 to device type S2-2
- ▶ As a result, configurations from older projects can simply be copied over.

Absolute encoder with SSI interface

- ▶ For device type S1-2, absolute encoders with SSI interface can now be connected and configured.

Unit calculator

- ▶ The unit calculator is used to calculate the scaling of the encoder signal on the drive side for various applications.
- ▶ The scaling is calculated based on the mechanical transmission path between drive and output side.

Motor parameters

- ▶ Motor parameters can be selected on safety cards of device types S1-2 and S2-2.
 - Motor type (rotary synchronous motor, linear motor)
 - Number of motor poles
 - Motor holding brake (without brake, with brake, with brake (W&S))

Changes in Version 1.1.1

Online Help: User-defined units

- ▶ The internal resolution of the safety card is always 4096 increments per revolution, irrespective of the resolution of the motor encoder.
- ▶ The Configurator converts the user-defined units into the default units used by the safety card. The values that have been entered as user-defined units for position and time are used as the conversion factor.
- ▶ The software registers rounding differences in the conversion. Each affected value must be confirmed by the user, otherwise the project cannot be saved and cannot be downloaded to the hardware.

Changes in Version 1.1.0

New functions

Check sum

- ▶ When the project is saved, a check sum is formed for each safety card, based on the parameters that have been entered.

SSL and SSR tolerance

- ▶ A tolerance range may also be set for the limit values used to monitor the speed. This tolerance range modifies the set limit values. As a result, one-off or periodic overshoots that exceed the limit values can be tolerated.

Input/output status, Error on STARTUP (feasibility test)

- ▶ Also, the code for the safety functions (e.g. SLS) is formatted in red if the feasibility test is incorrect as the safety card is in STARTUP.

Save to SD card

- ▶ The configuration for a single safety card can be saved to SD card in a configuration file
- ▶ The file can be used to download it to the safety card using the SD card.

Safety card -> SD card in the servo amplifier

- ▶ The configuration of a safety card within a servo amplifier can be saved to an SD card inserted within the servo amplifier.
- ▶ If multiple servo amplifiers are connected via fieldbus, the configurations of multiple safety cards can be saved to the SD cards on the individual servo amplifiers.



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