



**SPS BOARD S7-300** 

**Type 2130** 

#### Example of the configuration Type 2130.0000

#### Built in components:

Power supply 24 V DC / 2 A Alternatively: Power supply 24 V DC / 5 A CPU 313C Alternatively: CPU 314C-2DP Micro Memory Card AS-i module CP 343-2 AS-i power supply (built in)

- Programming and commissioning of a PLC (Siemens S7-300)
- Programming according to international standard IEC 1131-3
- Modular assembling; to your own requirement
- Expandable with additional input and output modules
- For direct connection to mechatronic applications
- For use with control and process simulations i.e. PLC INTERFACE BOARD (Type 3815)

#### **Mechanical Data**

- Material of the front panel: Laminate (5 mm), matt blue
- Rear front: Grey plastic cover (angled)
- **Dimension:** 532 x 297 x 210 mm (w x h x d)
- Weight: approx. 4.1 kg



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SPS BOARD S7-300

Туре 2130

# Automation Technology / PLC

# Overview of the currently available insert modules, suitable for the PLC BOARD S7-300

Basic panel for the modular set-up of a S7/300C training system with a 320-mm-hat rail. Measuring instrument (centre zero point) and potentiometer –10 V to +10 V DC for analog processing as well as EMERGENCY-OFF. With built in main jack and main switch. It is possible to mount 14 insert modules (one module width).



SPS BOARD S7-300 (Type 2130)



DIGITAL IN (with switches) (Type 2130.11)

Insert module (double width)

8 digital inputs via 4 mm safety jacks or stimulation with 8 pushbutton/lock-in switches



DIGITAL IN (Type 2130.12) Insert module (one width) 8 digital inputs via 4 mm safety jacks



DIGITAL OUT (Type 2130.13) Insert module (one width) 8 digital outputs via 4 mm safety jacks



(Type 2130.14) Insert module (one width)

ANALOG

4 analog inputs 2 analog outputs

1 PT100 input via

4 mm safety jacks



### Adapter MPI and 2 DP (Type 2130.15)

Insert module (one width)

1 MPI connection

1 Profibus connection 2 DP (only to be usable with a S7/314C-2 DP)

SystemTechnik Competence in Training



MECHATRONIC ADAPTER (Type 2130.16) Insert module (one width) 9-pin and 25-pin SUB-D adapter to connect

mechatronic systems



Adapter AS-i (Type 2130.17) Insert module (one width) For connecting the CP 343-2 with an AS-i bus (only in combination with communicating processor and AS-i power supply)



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#### SUB-D ADAPTER (Type 2130.18)

Insert module (double width) 3 SUB-D jacks, 25-pin, for all inputs and outputs of an S7/313C or an S7/314C-2DP





WORD INPUT (Type 2130.23) Insert module (one width) Hexadecimal coding switch, 4fold The use of a additional I/O card is recommendable.



## WORD DISPLAY (Type 2130.24) Insert module (double width)

Hexadecimal LC display, 4fold The use of a additional I/O card is recommendable.



Blank panel (Type 2130.25) Cover for two free expansion squares (double width)





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Some applications of the PLC BOARDs in combination with other hps trainings systems

The PLC BOARD S7-300 (Type 2130) controls a simulation of different applications with the PLC INTERFACE BOARD (Type 3815).

Example:

- simple motor control
- sorting system







The PLC BOARD S7-300 (Type 2130) controls the linear movement of the SENSORICS BOARD (Type 3840) und analysis data of the sensors.

The PLC BOARD S7-300 (Type 2130) controls the FREQUENCY CONVERTER (Type 5264) with connected AC MOTOR (Type 5265).





Access to the contactor control engineering with the CONTACTOR CONTROL BOARD (Type 2120), the special contactors enable the direct control with the PLC BOARD S7-300 (Type 2130).





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The CONTACTOR BOARD II (Type 2121.1) and it's special 24 V DC special contactors is ideally suitable to be controlled with a PLC BOARD S7-300 (Type 2130).



The AC MULTIFUNCTION MOTOR (Type 2122) could be used in three different operating modes, as an asynchronous motor, an asynchronous motor with separate windings for two speeds and a Dahlander motor.



Subject to technical modifications.

