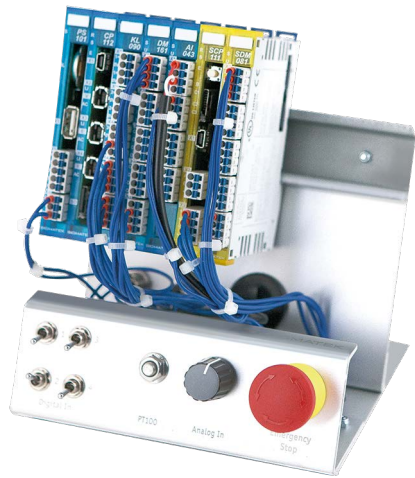


Training System Basic Application

TSY 021



The TSY 021 training system is an application assembly that is used for training. The complete PLC consists of a S-DIAS CPU, several I/O modules and several control elements to simulate various input and output signals. The VARAN bus system serves for the data exchange between the TSY 021 and the extension module motion TSY 041 rest. The Ethernet 2 interface serves for the data exchange between the TSY 021 and the HMI extension module TSY 031. The power for the assembly is supplied over a connection to mains voltage. Additionally a RJ45 network cable for establishing an online connection is part of the application.

Performance Data

Processor	EDGE2 Technology
Addressable I/O/P modules	VARAN Bus: 65,280 CAN participants: > 100 S-DIAS bus: 64
Internal I/O	no
Internal cache	512-kbyte L2 Cache
Internal program and data memory (DDR3 RAM)	256-Mbyte
Internal remnant data memory	256-kbyte SRAM (battery buffered)
Internal storage device	512-Mbyte microSD card
Interfaces	1x USB host 2.0 (high speed 480 Mbits/s) (via PS 101) 1x USB device 1.1 2x Ethernet 1x VARAN Out (Manager) (maximum cable length: 100 m) 1x CAN (via PS 101) 1x S-DIAS (with manager)
Status display	no
Status LEDs	yes
Real-time clock	yes (battery buffered)

Module Supply (Input)

Supply voltage	+5 V from PS 101
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S-DIAS Bus Supply (Output)

Voltage supply on the S-DIAS bus	+5 V	
Current consumption on the S-DIAS bus (+5 V supply)	typically 400 mA	maximum 450 mA

Article Number and Miscellaneous

Article number	12-100-021
Project backup	internally on the microSD card

Environmental Conditions

Storage temperature	-20 ... +85 °C	
Environmental temperature	0 ... +55 °C	
Humidity	0-95 %, non-condensing	
EMC resistance	in accordance with EN 61000-6-2 (industrial area)	
EMC noise generation	in accordance with EN 61000-6-4 (industrial area)	
Vibration resistance	EN 60068-2-6	3,5 mm from 5-8.4 Hz 1 g from 8.4-150 Hz
Shock resistance	EN 60068-2-27	15 g
Protection type	EN 60529	IP20