

E6.6.1

COM3LAB MULTIMEDIA:
AUTOMATION

E6.6.1.1
Basics of
Automation Technology

E6.6.1.2
Pneumatics Board



Basics of Automation Technology (E6.6.1.1)

Cat. No.	Description	E6.6.1.1	E6.6.1.2
700 3101	COM3LAB Course: Automation and Bus Technology	1	1
700 020	COM3LAB: Master Unit	1	1
700 022	Set of Safety Cables (2 mm, 16 Qty., 6 x 30 cm & 10 x 15 cm)	1	1
688 129	Mains cable with hock-proof plug and cold connector	1	1
700 00CBT	DVD: COM3LAB Software	1	1
728 871	Software: 5 Modells CBS 9 (single user)	1	
728 872	Software: 5 Models CBS 9 (licence for 25 places)	1	
730 4313	Bus connecting plug RS 485	1	
524 016S2	Profi-CASSY Starter 2	1	
700 027	COM3LAB: Suitcase	1*	1*
700 3501	COM3LAB Course: Electro Pneumatics		1
700 351	COM3LAB: Pneumatics Board		1
744 600	Low-noise Compressor		1*
744 902	Compressor Connection Hosing		1*
	additionally required: 1 PC with Windows 7/8/10		

* additionally recommended

Automation and Bus Technology

The COM3LAB course Bus and Automation technology teaches the basics of programmable logic controllers (PLC) and shows their interconnection including sensors and actuators using the PROFIBUS. With many examples, explanations, exercises and practical tasks, the basic principles and functions of the PLC and the PROFIBUS are clearly illustrated.

The combination with external PROFIBUS components or an external system simulator enables the processes in the bus and automation technology to be illustrated and tracked as accurately as possible and without any great amount of effort.

Topics

- Motor control
- Traffic light control
- etc.

Pneumatics

The COM3LAB course Electropneumatics teaches the basics of electropneumatics using the BIBB standard tasks.

The COM3LAB course Automation technology explains the function and application of a PLC. Several examples make it easy to learn the PLC computer language.

Both courses can be combined so that complete process cycles can be executed and documented. This kind of project work supports independent and creative handling.

Topics

- Function and use of electronic and pneumatic components
- Electronic and pneumatic schematics
- etc.

Experiments are operated and evaluated with COM3LAB CBT.