Equipment set TP 301
Programmable logic controllers

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Complete equipment set TP 301	167101

The most important components at a glance:

1	1x	Signal input, electrical	162242
2	1x	Indicator unit and distributor, electrical	162244
3	1x	Proximity sensor, inductive, M12	548643
4	1x	Proximity sensor, capacitive, M12	548651
5	1x	Proximity sensor, optical, M12	572744
6	4x	Proximity sensor, electronic, with cylinder mounting	2344752
7	1x	5/2-way solenoid valve with LED	567199
8	1x	5/2-way double solenoid valve with LED	567200
9	1x	Single-acting cylinder	152887
10	2x	Double-acting cylinder	152888
11	1x	Start-up valve with filter control valve	540691
12	1x	Manifold	152896
13	2x	Plastic tubing, 4 x 0.75 silver 10 m	151496

Recommended accessories:

Aluminum profile plate ➔ Page 39	
Universal connection unit, digital (SysLink)	162231
Tabletop power supply unit ➔ www.festo-didactic.com	
Power supply unit for mounting frame ➔ Page 159	
4 mm Safety laboratory cables ➔ Page 159	
EduTrainer ➔ www.festo-didactic.com	

Supplementary equipment set from TP 201 to TP 301

Supplements the Electropneumatics basic level equipment set, TP 201, to form a complete Programmable Logic Controllers equipment set, TP 301.

Complete supplementary equipment set TP 201 – TP 301	167102

The most important components at a glance:

3	1x	Proximity sensor, inductive, M12	548643
4	1x	Proximity sensor, capacitive, M12	548651
6	2x	Proximity sensor, electronic, with cylinder mounting	2344752

Training aims
– Benefits of the PLC compared to conventional solutions such as electrical, electropneumatic, or electrohydraulic solutions
– Functions of system components of a PLC
– Commissioning a PLC
– Application criteria for mechanical, optical, capacitive, and inductive proximity sensors
– Sequence control and parallel logic
– Systematic programming of a PLC in accordance with international standard IEC 1131-3
– IEC 1131-3 programming languages: Function Block Diagram, Ladder Diagram, Statement List, Structured Text, and Sequence Language

A PLC (Festo FC34, SIMATIC S7-300 or Allen Bradley) is required to carry out the tasks. Connection with universal connection unit and I/O data cable (SysLink) or with 4 mm safety connectors. I/O modules can be connected via 4 mm safety connectors.

Also order:

Workbook Programmable Logic Controllers, Basic level
Campus license (➔ Page 19):

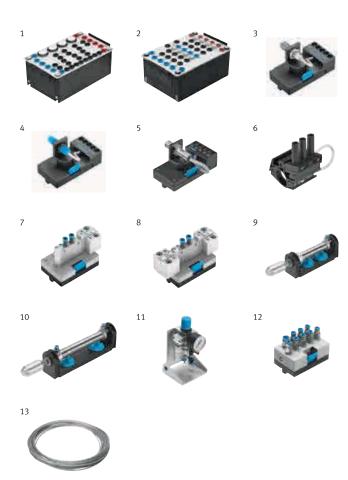| de	93313
en	93314
es	94427

Recommended training media
Textbook: Programmable Logic Controllers, Basic level

For additional controllers suitable for your requirements see:
➔ www.festo-didactic.com
Keyword "EduTrainer Compact"

Supplementary equipment sets
Controllers for electropneumatics

Supplementary equipment set Controlling using FluidSIM®/ EasyPort USB

With this package, the FluidSIM® software can be used to control training packages. FluidSIM® controls via EasyPort USB and processes the inputs and outputs connected to the universal connection unit according to their programming, e.g., using the digital module contained in FluidSIM®.

The Controlling using FluidSIM® package contains everything you need to control training packages TP 201 and TP 601. FluidSIM® Pneumatics is required for TP 201 and FluidSIM® Hydraulics for TP 601. A set of brief instructions provides information on the individual steps.

The sample solutions are included on a data storage medium as FluidSIM® CT programs.

Complete supplementary equipment set Controlling using FluidSIM/EasyPort USB in equipment tray	**556270**

The most important components at a glance:

1	1x	Brief instructions FluidSIM de/en/es/fr	556267
2	1x	EasyPort USB	548687
3	1x	Quick-Fix screw adapter	549806
4	1x	Universal connection unit, digital (SysLink)	162231
5	1x	I/O data cable with SysLink connectors (IEEE 488), 2.5 m	34031

Prerequisite:

Equipment set TP 201 – Basic level ➜ Pages 56 – 57
FluidSIM Pneumatics ➜ Pages 12 – 13

Necessary accessories, also order:

Aluminum profile plate ➜ Page 39
Compressor ➜ Page 136
Tabletop power supply unit ➜ www.festo-didactic.com
Power supply unit for mounting frame ➜ Page 159
4 mm Safety laboratory cables ➜ Page 159

Supplementary equipment set Controlling using LOGO! 8 TP EduTrainer® Compact TP/LOGO! Soft Comfort

A quick, straightforward, and inexpensive introduction to logical signal processing.

With its extensive basic and special control technology functions, LOGO! replaces a variety of conventional switchgears and control devices.

The LOGO! 8 TP EduTrainer® Compact training package contains everything you need to control training packages TP 201 and TP 601. A set of brief instructions provides information on the individual steps. Programming is carried out using the LOGO! programming software, Soft Comfort.

The sample solutions are included on a data storage medium as LOGO! Soft Comfort programs.

Complete supplementary equipment set with LOGO! 8 TP EduTrainer Compact TP/LOGO! Soft Comfort included in order	**8049517**

The most important components at a glance :

6	1x	Brief instructions for LOGO!, de/en/es/fr	8049519
7	1x	LOGO! 8 TP EduTrainer Compact TP	8040886
8	1x	LOGO! Soft Comfort, de/en/es/fr	8040050
9	1x	Ethernet cable	567280

Prerequisite:

Equipment set TP 201 – Basic level ➜ Pages 56 – 57

Necessary accessories, also order:

Aluminum profile plate ➜ Page 39
Compressor ➜ Page 136
Tabletop power supply unit ➜ www.festo-didactic.com
Power supply unit for mounting frame ➜ Page 159
4 mm Safety laboratory cables ➜ Page 159