# PLC Applications
8075

**LabVolt Series**

Datasheet

* The product images shown in this document are for illustration purposes; actual products may vary. Please refer to the Specifications section of each product/item for all details. Festo Didactic reserves the right to change product images and specifications at any time without notice.

Festo Didactic
en
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# Table of Contents

## General Description

The PLC Applications, Series 8075, aim to further develop student understanding of PLC programming that was acquired with the Programmable Logic Controller Training Systems, Series 3240. Basic principles are integrated with more advanced concepts in order to design small-scale systems typical of what can be found in the industry. Through practical examples, students gain a strong knowledge of PLCs and of the studied applications. Job sheets are provided with each application. The training capabilities of the systems are enhanced by their modularity and by the ability to use instructor-inserted faults.

Fault switches are included on selected modules to enhance troubleshooting activities by simulating open coils and contacts, defective contacts, shorted connections, and crossed wires.

The modules of the PLC Applications Series can be interconnected with those of other training systems for interdisciplinary training applications. Connections are made using flexible, PVC-insulated connecting leads terminated with 2 mm plugs. The control circuits operate at 24 V dc and are compatible with a variety of PLCs.

The PLC Applications series is divided into seven systems, each system covering a specific topic related to PLC controls.

## Courseware

Each manual of the PLC Applications Series concentrates on a specific utilization of a PLC, starting with a familiarzation and evolving into more complex concepts and troubleshooting. With each manual, new components are introduced to create different learning opportunities.

The PLC Applications series courseware consists of one student manual and one instructor guide per application. The student manuals are divided into job sheets detailing relevant information and providing clearly stated objectives and procedure steps. The instructor guides contain ladder programs and answer keys for all exercises and questions in the student manuals.

Please refer to the Table of Contents of the Manual(s) section of this datasheet for a list of the topics covered in each manual.

## PLC Compatibility

| | | Training System | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 8075-1 | 8075-2 | 8075-3 | 8075-4 | 8075-5 | 8075-6 | 8075-7 |
| **Model Number** | **Description** | **Curriculum Coverage** | | | | | | |
| 3240-3 | PLC Allen-Bradley MicroLogix 1500 | ● | ● | ● | ● | ●* | ●* | P |
| 3240-4 | PLC Allen-Bradley MicroLogix 1200 | ● | ● | ● | ● | ●* | ●* | P† |
| 3240-A | PLC Allen-Bradley MicroLogix 1100 | P | ● | ● | ● | ● | ●* | ● |
| 3240-B | PLC Siemens ET200S IM151-8 | ● | ● | ● | ● | ●* | ●* | P |
| 3240-C | PLC Siemens ET200S IM151-8 | ● | ● | ● | ● | ●* | ●* | P |
| 3270-6 | PLC Siemens S7-222 | P | ● | ● | ● | X | P | P |
| 3270-7 | PLC Allen-Bradley MicroLogix 1100 | P | ● | ● | ● | ● | ●* | ● |

● : Complete curriculum coverage
P : Partial curriculum coverage
X : PLC not recommended for the application
* : Analog I/O Expansion Kit (Model 3244-3, -4, -A, -B, or -C) required to perform all the exercises
† : Only the optional Job Sheet with PTO function files cannot be completed

## PLC Requirements

| | | Training System | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 8075-1 | 8075-2 | 8075-3 | 8075-4 | 8075-5 | 8075-6 | 8075-7 |
| | **Type** | **Quantity** | | | | | | |
| **Inputs** | 24 V – DC | 3 | 5 | 8 | 5 | 6 | 6 | 5 |
| | 24 V – DC High-Speed | - | - | 2* | - | - | - | - |
| | 0-10 V – DC / 4-20 mA | - | - | - | - | 1 | 1* | - |
| **Outputs** | 24 V – DC | 10 | 4 | 3 | 3 | 2 | 6 | 6 |
| | 24 V – DC High-Speed | - | - | - | - | - | - | 2* |
| | 0-10 V – DC / 4-20 mA | - | - | - | - | - | 1* | - |

* : For the optional exercise only

## Topic Coverage

- Traffic Lights
- Electro-Pneumatics
- Electro-Mechanical – DC Motor
- Electro-Mechanical – Stepper Motor
- Wind Turbine

- Level Process Control

## Features & Benefits

- Realistic applications to help students understand PLC principles and concepts
- Safe equipment
- Applications can be interconnected with other equipment for interdisciplinary training
- Tabletop, cost-effective applications integrating realistic components
- Comprehensive curriculum included with each application
- Highly modular systems – accessories are available for more complex applications
- Fault-insertion capability for troubleshooting
- PLC sold separately (customers can also use their own)

## List of Available Training Systems

| Qty | Description | Model number |
|---|---|---|
| 1 | Traffic Light Training System | 582532 (8075-10) |
| 1 | Electro-Pneumatic Training System | 588682 (8075-20) |
| 1 | Wind Turbine Training System | 582542 (8075-50) |

## Available Training Systems

### Traffic Light Training System 582532 (8075-10)

The Traffic Light Training System is a classic PLC training system allowing the implementation of vehicle and pedestrian traffic control at an intersection.

#### PLC Compatibility

Listed below are the PLC compatibilities with the Traffic Light Training System, Model 8075-1.

- Advanced PLC Training System (Rockwell Automation), Models 3355-0
- Advanced PLC Training System (Siemens), Models 3355-A
- PLC Allen-Bradley MicroLogix 1500, Model 3240-3: Full compatibility
- PLC Allen-Bradley MicroLogix 1200, Model 3240-4: Full compatibility
- PLC Allen-Bradley MicroLogix 1100, Model 3240-A: Partial compatibility only
- PLC Siemens ET200S IM151-8, Model 3240-B: Full compatibility
- PLC Siemens ET200S IM151-8 (with Case), Model 3240-C: Full compatibility
- PLC Siemens S7-222, Model 3270-6: Partial compatibility only
- PLC Allen-Bradley MicroLogix 1100, Model 3270-7: Partial compatibility only

#### Features & Benefits

- A well-known classic training system

- N-S/E-W traffic control with pedestrian crossing
- Another unit can be added to create a full, four-directions traffic light
- Flow management with proximity detectors (optional)
- Traffic light synchronization
- Fault-insertion capability for troubleshooting
- LEDs (long life)
- Fitted with ten 24 V dc control inputs
- Includes job sheets

### List of Equipment

| Qty | Description | Model number |
|---|---|---|
| 1 | PLC Applications (Job Sheets - Student) | 580490 (85249-20) |
| 1 | PLC Applications (Job Sheets - Instructor) | 580491 (85249-30) |
| 1 | Traffic Light Module | 582185 (3291-00) |

### List of Manuals

| Description | Manual number |
|---|---|
| PLC Applications (Workbook) | 580490 (85249-20) |
| PLC Applications (Workbook (Instructor)) | 580491 (85249-30) |

### Table of Contents of the Manual(s)

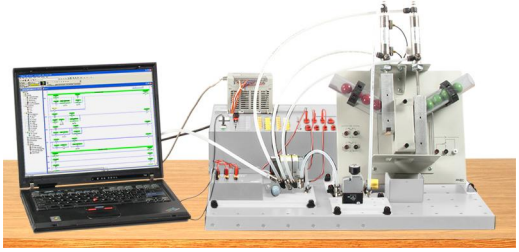
#### PLC Applications (Workbook) (580490 (85249-20))



### System Specifications

| Parameter | Value |
|---|---|
| **PLC Requirements - Inputs** | |
| 24 V dc | 3 |
| **PLC Requirements - Outputs** | |
| 24 V dc | 10 |
| **Physical Characteristics** | |
| Intended Location | On a table |
| Dimensions (H x W x D) | 480 x 730 x 390 mm (18.9 x 28.7 x 15.4 in) |
| Net Weight | TBE |

## Electro-Pneumatic Training System 588682 (8075-20)



The Electro-Pneumatic Training System uses a PLC to control a variety of pneumatic industrial applications.

## PLC Compatibility

Listed below are the PLC compatibilities with the Electro-Pneumatic Training System, Model 8075-2.

- PLC Allen-Bradley MicroLogix 1500, Model 3240-3: Full compatibility
- PLC Allen-Bradley MicroLogix 1200, Model 3240-4: Full compatibility
- PLC Allen-Bradley MicroLogix 1100, Model 3240-A: Full compatibility
- PLC Siemens ET200S IM151-8, Model 3240-B: Full compatibility
- PLC Siemens ET200S IM151-8 (with Case), Model 3240-C: Full compatibility
- PLC Siemens S7-222, Model 3270-6: Full compatibility
- PLC Allen-Bradley MicroLogix 1100, Model 3270-7: Full compatibility

## Features & Benefits

- Two double-acting cylinders
- Two reed switches and mechanical limit switch for PLC feedback
- Perforated work surface
- Control valve station featuring single- and double-solenoid valves
- Applications: stamping, hold and punch, filling process, etc.
- Fault-insertion capability for troubleshooting
- Accepts three 24 V dc control signals from the PLC
- Includes job sheets

## List of Equipment

| Qty | Description | Model number |
|---|---|---|
| 1 | PLC Applications (Job Sheets - Student) | 585088 (85250-20) |
| 1 | PLC Applications (Job Sheets - Instructor) | 585089 (85250-30) |
| 1 | Pressure Regulator | 587527 (3216-00) |
| 1 | Electro-Pneumatic Valve Island | 587528 (3217-00) |
| 1 | Electro-Pneumatic Module | 587572 (3292-00) |
| 1 | Storage/Work Surface | 582357 (6309-00) |

## List of Manuals

| Description | Manual number |
|---|---|
| PLC Applications (Workbook) | 585088 (85250-20) |
| PLC Applications (Workbook (Instructor)) | 585089 (85250-30) |

## Table of Contents of the Manual(s)

**PLC Applications (Workbook) (585088 (85250-20))**

**Additional Equipment Required to Perform the Exercises (Purchased separately)**

| Qty | Description | Model number |
|---|---|---|
| 1 | Compressor | 588108 (6410-C0) [1] |
| 1 | Conditioning Unit (Single Port) | 588111 (6411-A0) |

**Additional Equipment Required to Perform the Exercises (Purchased separately)**

| Qty | Description | Model number |
|---|---|---|
| 1 | Compressor | 588108 (6410-C0) [2] |
| 1 | Conditioning Unit (Single Port) | 588111 (6411-A0) |

**Additional Equipment Required to Perform the Exercises (Purchased separately)**

| Qty | Description | Model number |
|---|---|---|
| 1 | Compressor | 588108 (6410-C0) [3] |
| 1 | Conditioning Unit (Single Port) | 588111 (6411-A0) |

**Additional Equipment Required to Perform the Exercises (Purchased separately)**

| Qty | Description | Model number |
|---|---|---|
| 1 | Compressor | 588108 (6410-C0) [4] |
| 1 | Conditioning Unit (Single Port) | 588111 (6411-A0) |

**Additional Equipment Required to Perform the Exercises (Purchased separately)**

| Qty | Description | Model number |
|---|---|---|
| 1 | Compressor | 588108 (6410-C0) [5] |
| 1 | Conditioning Unit (Single Port) | 588111 (6411-A0) |

**Additional Equipment Required to Perform the Exercises (Purchased separately)**

| Qty | Description | Model number |
|---|---|---|
| 1 | Compressor | 588108 (6410-C0) [6] |
| 1 | Conditioning Unit (Single Port) | 588111 (6411-A0) |

**Additional Equipment Required to Perform the Exercises (Purchased separately)**

| Qty | Description | Model number |
|---|---|---|
| 1 | Compressor | 588108 (6410-C0) [7] |
| 1 | Conditioning Unit (Single Port) | 588111 (6411-A0) |

[1] 60 l/minute.
[2] 60 l/minute.
[3] 60 l/minute.
[4] 60 l/minute.
[5] 60 l/minute.
[6] 60 l/minute.
[7] 60 l/minute.

**Additional Equipment Required to Perform the Exercises (Purchased separately)**

| Qty | Description | Model number |
|---|---|---|
| 1 | Compressor | 588108 (6410-C0) [8] |
| 1 | Conditioning Unit (Single Port) | 588111 (6411-A0) |

**Additional Equipment Required to Perform the Exercises (Purchased separately)**

| Qty | Description | Model number |
|---|---|---|
| 1 | Compressor | 588108 (6410-C0) [9] |
| 1 | Conditioning Unit (Single Port) | 588111 (6411-A0) |

**Additional Equipment Required to Perform the Exercises (Purchased separately)**

| Qty | Description | Model number |
|---|---|---|
| 1 | Compressor | 588108 (6410-C0) [10] |
| 1 | Conditioning Unit (Single Port) | 588111 (6411-A0) |

**Additional Equipment Required to Perform the Exercises (Purchased separately)**

| Qty | Description | Model number |
|---|---|---|
| 1 | Compressor | 588108 (6410-C0) [11] |
| 1 | Conditioning Unit (Single Port) | 588111 (6411-A0) |

**Additional Equipment Required to Perform the Exercises (Purchased separately)**

| Qty | Description | Model number |
|---|---|---|
| 1 | Compressor | 588108 (6410-C0) [12] |
| 1 | Conditioning Unit (Single Port) | 588111 (6411-A0) |

**Additional Equipment Required to Perform the Exercises (Purchased separately)**

| Qty | Description | Model number |
|---|---|---|
| 1 | Compressor | 588108 (6410-C0) [13] |
| 1 | Conditioning Unit (Single Port) | 588111 (6411-A0) |

**Additional Equipment Required to Perform the Exercises (Purchased separately)**

| Qty | Description | Model number |
|---|---|---|
| 1 | Compressor | 588108 (6410-C0) [14] |
| 1 | Conditioning Unit (Single Port) | 588111 (6411-A0) |

[8] 60 l/minute.
[9] 60 l/minute.
[10] 60 l/minute.
[11] 60 l/minute.
[12] 60 l/minute.
[13] 60 l/minute.
[14] 60 l/minute.

**Additional Equipment Required to Perform the Exercises (Purchased separately)**

| Qty | Description | Model number |
|---|---|---|
| 1 | Compressor | 588108 (6410-C0) [15] |
| 1 | Conditioning Unit (Single Port) | 588111 (6411-A0) |

**Additional Equipment Required to Perform the Exercises (Purchased separately)**

| Qty | Description | Model number |
|---|---|---|
| 1 | Compressor | 588108 (6410-C0) [16] |
| 1 | Conditioning Unit (Single Port) | 588111 (6411-A0) |

**Additional Equipment Required to Perform the Exercises (Purchased separately)**

| Qty | Description | Model number |
|---|---|---|
| 1 | Compressor | 588108 (6410-C0) [17] |
| 1 | Conditioning Unit (Single Port) | 588111 (6411-A0) |

**Additional Equipment Required to Perform the Exercises (Purchased separately)**

| Qty | Description | Model number |
|---|---|---|
| 1 | Compressor | 588108 (6410-C0) [18] |
| 1 | Conditioning Unit (Single Port) | 588111 (6411-A0) |

**Additional Equipment Required to Perform the Exercises (Purchased separately)**

| Qty | Description | Model number |
|---|---|---|
| 1 | Compressor | 588108 (6410-C0) [19] |
| 1 | Conditioning Unit (Single Port) | 588111 (6411-A0) |

**Additional Equipment Required to Perform the Exercises (Purchased separately)**

| Qty | Description | Model number |
|---|---|---|
| 1 | Compressor | 588108 (6410-C0) [20] |
| 1 | Conditioning Unit (Single Port) | 588111 (6411-A0) |

**Additional Equipment Required to Perform the Exercises (Purchased separately)**

| Qty | Description | Model number |
|---|---|---|
| 1 | Compressor | 588108 (6410-C0) [21] |
| 1 | Conditioning Unit (Single Port) | 588111 (6411-A0) |

[15] 60 l/minute.
[16] 60 l/minute.
[17] 60 l/minute.
[18] 60 l/minute.
[19] 60 l/minute.
[20] 60 l/minute.
[21] 60 l/minute.

### Additional Equipment Required to Perform the Exercises (Purchased separately)

| Qty | Description | Model number |
|---|---|---|
| 1 | Compressor | 588108 (6410-C0) [22] |
| 1 | Conditioning Unit (Single Port) | 588111 (6411-A0) |

### Additional Equipment Required to Perform the Exercises (Purchased separately)

| Qty | Description | Model number |
|---|---|---|
| 1 | Compressor | 588108 (6410-C0) [23] |
| 1 | Conditioning Unit (Single Port) | 588111 (6411-A0) |

### Additional Equipment Required to Perform the Exercises (Purchased separately)

| Qty | Description | Model number |
|---|---|---|
| 1 | Compressor | 588108 (6410-C0) [24] |
| 1 | Conditioning Unit (Single Port) | 588111 (6411-A0) |

### Additional Equipment Required to Perform the Exercises (Purchased separately)

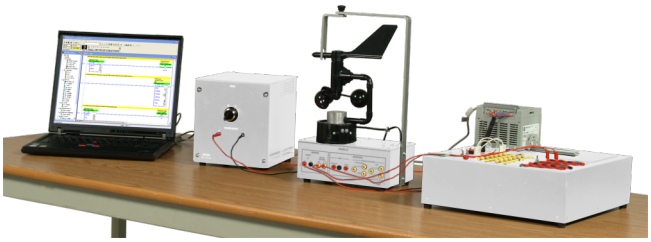
| Qty | Description | Model number |
|---|---|---|
| 1 | Compressor | 588108 (6410-C0) [25] |
| 1 | Conditioning Unit (Single Port) | 588111 (6411-A0) |

## System Specifications

| Parameter | Value |
|---|---|
| **PLC Requirements - Inputs** | |
| 24 V dc | 5 |
| **PLC Requirements - Outputs** | |
| 24 V dc | 4 |
| **Physical Characteristics** | |
| Intended Location | On a table |
| Dimensions (H x W x D) | 370 x 1160 x 590 mm (14.6 x 45.7 x 23.2 in) |
| Net Weight | TBE |

[22] 60 l/minute.
[23] 60 l/minute.
[24] 60 l/minute.
[25] 60 l/minute.

## Wind Turbine Training System
## 582542 (8075-50)



The Wind Turbine Training System uses a PLC to monitor the speed and direction of the wind and control the position of the wind turbine nacelle.

### PLC Compatibility

Listed below are the PLC compatibilities with the Wind Turbine Training System, Model 8075-5.

- PLC Allen-Bradley MicroLogix 1500, Model 3240-3: Full compatibility, but requires the Analog I/O Expansion Kit, Model 3244-3
- PLC Allen-Bradley MicroLogix 1200, Model 3240-4: Full compatibility, but requires the Analog I/O Expansion Kit, Model 3244-4
- PLC Allen-Bradley MicroLogix 1100, Model 3240-A: Full compatibility
- PLC Siemens ET200S IM151-8, Model 3240-B: Full compatibility, but requires the Analog I/O Expansion Kit, Model 3244-B
- PLC Siemens ET200S IM151-8 (with Case), Model 3240-C: Full compatibility, but requires the Analog I/O Expansion Kit, Model 3244-C
- PLC Siemens S7-222, Model 3270-6: Not recommended
- PLC Allen-Bradley MicroLogix 1100, Model 3270-7: Full compatibility

### Features & Benefits

- System comprised of a Nacelle Simulator, Model 3297, and a Wind Generator, Model 3213
- Small blower for generating air flow
- Nacelle equipped with dc motor and mechanical clutch
- Two limit switches with NO and NC contacts
- Analog position sensor for determining wind direction (0-10 V)
- Variable-frequency pulse-train signal for measuring wind speed (24 V dc)
- Requires an external 24 V power supply
- Accepts two 24 V dc control signals from the PLC for motor operation
- Includes job sheets

### List of Equipment

| Qty | Description | Model number |
|---|---|---|
| 1 | PLC Applications (Job Sheets - Student) | 580499 (85303-20) |
| 1 | PLC Applications (Job Sheets - Instructor) | 580501 (85303-30) |
| 1 | Wind Generator | 582179 (3213-00) |
| 1 | Nacelle Simulator | 582189 (3297-00) |

## List of Manuals

| Description | Manual number |
|---|---|
| PLC Applications (Workbook) | 580499 (85303-20) |
| PLC Applications (Workbook (Instructor)) | 580501 (85303-30) |

## Table of Contents of the Manual(s)

### PLC Applications (Workbook) (580499 (85303-20))



## System Specifications

| Parameter | Value |
|---|---|
| **PLC Requirements - Inputs** | |
| 24 V dc | 6 |
| 0-10 V dc / 4-20 mA | 1 |
| **PLC Requirements - Outputs** | |
| 24 V dc | 2 |
| **Physical Characteristics** | |
| Intended Location | On a table |
| Dimensions (H x W x D) | 310 x 870 x 210 mm (12.2 x 34.3 x 8.3 in) |
| Net Weight | TBE |

# Equipment Description

## Wind Generator 582179 (3213-00)

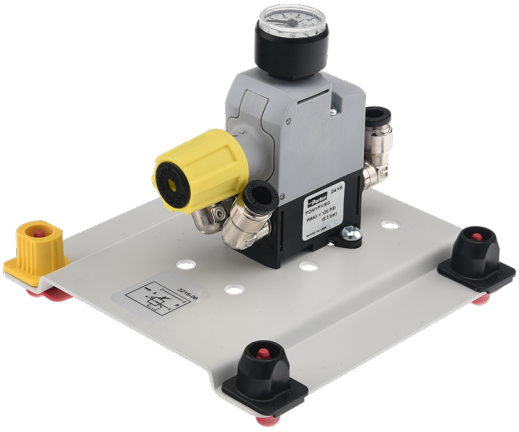

The Wind Generator includes a small blower producing a constant air flow. This sturdy and reliable device is designed to be used with the Wind Turbine Training System, Model 8075-5.

## Specifications

| Parameter | Value |
|---|---|
| **Power Requirements** | 24 V dc - 1.1 A |
| **Nominal Speed** | 2500 r/min |
| **Maximum Air Flow** | 28.3 L/s (60 CFM) |
| **Physical Characteristics** | |
| Dimensions (H x W x D) | 207 x 186 x 230 mm (8.1 x 7.3 x 9.1 in) |

| Parameter | Value |
|---|---|
| Net Weight | 3.0 kg (6.6 lb) |

## Pressure Regulator 587527 (3216-00)



The Pressure Regulator offers two different air flow paths: one not regulated and one limited in pressure. A rotary knob and an air gauge make it simple to regulate the pressure to the desired value, thus limiting the pressure sent to the Electro-Pneumatic Training System, Model 8075-2.

### Specifications

| Parameter | Value |
|---|---|
| **Pressure Range** | 0-830 kPa (0-120 psi) |
| **Gauge Range** | 0-1100 kPa (0-160 psi) |
| **Physical Characteristics** | |
| Dimensions (H x W x D) | 95 x 120 x 120 mm (3.7 x 4.7 x 4.7 in) |
| Net Weight | 0.5 kg (1.1 lb) |

## Electro-Pneumatic Valve Island 587528 (3217-00)

The Electro-Pneumatic Valve Island comprises two 4-way/2-position valves with common input and exhaust ports. One valve is operated by two solenoids and the other by a single solenoid and a spring return. The solenoids are actuated by 24 V dc signals.

### Specifications

| Parameter | Value |
|---|---|
| **Valves** | |
| | 1 double solenoid |
| | 1 single solenoid with spring return |
| **Operating Pressure** | Up to 830 kPa (120 psi) |
| **Piloting Pressure** | 300-830 kPa (43-120 psi) |
| **Coil Voltage** | 24 V dc |
| **Fault Switches** | 4 |
| **Physical Characteristics** | |

| Parameter | Value |
|---|---|
| Dimensions (H x W x D) | 85 x 220 x 170 mm (3.3 x 8.7 x 6.7 in) |
| Net Weight | 1.7 kg (3.7 lb) |

## Traffic Light Module 582185 (3291-00)

The Traffic Light Module reproduces a two-way traffic light, complete with pedestrian signals and the possibility to simulate broken lights. Its realistic appearance and functionalities help make the Traffic Light Training System, Model 8075-1, vivid and compelling to students. The addition of a second unit creates a full, four-direction traffic light.

### Specifications

| Parameter | Value |
|---|---|
| **Lights** | |
| Number | 10 (2 green, 2 yellow, 2 red, 2 walk, 2 don't walk) |
| Type | LED |
| Voltage | 24 V dc |
| **Fault Switches** | 8 |
| **Physical Characteristics** | |
| Dimensions (H x W x D) | 495 x 370 x 326 mm (19.5 x 14.6 x 12.8 in) |
| Net Weight | 5.6 kg (12.4 lb) |

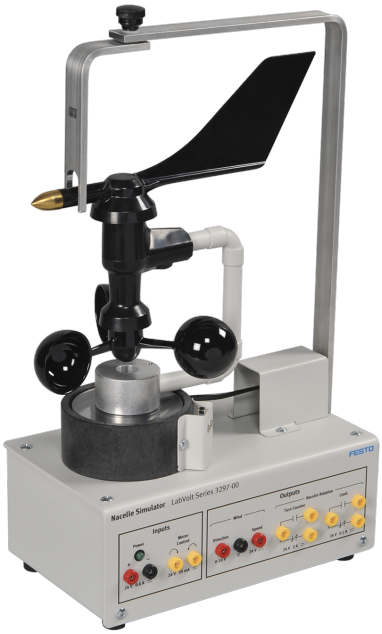
## Electro-Pneumatic Module 587572 (3292-00)

The Electro-Pneumatic Module and the associated equipment enable stamping, hold-and-punch, and filling operations. The module features two pneumatic cylinders arranged so as to distribute a programmed number of marbles from two tubes (feed lines) into a container. A second configuration allows students to perform a clamp-and-work operation on a plane material, such a sheet of paper. Two reed switches and one limit switch are installed to provide feedback on the cylinders' positions.

## Specifications

| Parameter | Value |
|---|---|
| **Reed Switches (2)** | |
| Contact Type | NO |
| Contact Rating | 30 mA - 24 V dc |
| **Limit Switch** | |
| Contact Type | NO |
| Contact Rating | 1 A - 24 V dc |
| **Cylinders (2)** | |
| Max Pressure | 1700 kPa (250 psi) |
| **Physical Characteristics** | |
| Dimensions (H x W x D) | 410 x 320 x 120 mm (16.1 x 12.6 x 4.7 in) |
| Net Weight | 3.1 kg (6.8 lb) |

# Nacelle Simulator 582189 (3297-00)

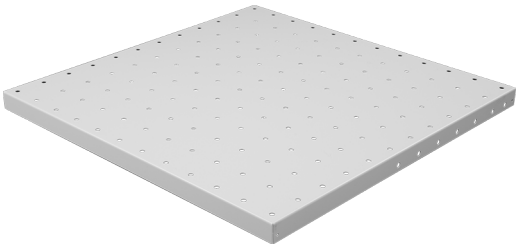



The Nacelle Simulator replicates the main functionalities of a wind turbine. It is designed to measure the speed and direction of the wind so that a PLC can control the position of the nacelle to optimize its operation. Two limit switches with NO and NC contacts allow monitoring of the number of rotations of the nacelle.

## Specifications

| Parameter | Value |
|---|---|
| **Power Requirements** | 24 V dc - 0.6 A |
| **Motor Ratings** | |
| Power | 3.04 W |
| Max Speed | 4.2 r/min |
| **Analog Wind Direction Output** | 0-10 V dc |
| **Wind Speed Output** | 24 V dc |
| **Turn Counter Switch Ratings** | 2 A - 24 V dc |
| **Turn Limit Switch Ratings** | 0.1 A - 24 V dc |
| **Physical Characteristics** | |
| Dimensions (H x W x D) | 397 x 235 x 140 mm (15.6 x 9.3 x 5.5 in) |
| Net Weight | 2.9 kg (6.4 lb) |

### Storage/Work Surface
### 582357 (6309-00)



The Storage/Work Surface is a perforated metal plate on which the equipment is placed. Two work surfaces can be joined using Spacers.

### Specifications

| Parameter | Value |
|---|---|
| **Physical Characteristics** | |
| Dimensions (H x W x D) | 30 x 590 x 590 mm (1 x 23 x 23 in) |
| Net Weight | 5 kg (11 lb) |

## Optional Equipment Description

### Compressor (Optional)
### 588108 (6410-C0)

The Air Compressor is a quiet device well suited for classroom and school laboratories. The Air Compressor can be used to provide compressed air to different components. A conditioning unit, Model 6411-A, must be connected to the compressor for certain applications.

The Circulator Pump is available in different variants depending on ac power network voltages and frequencies. Because of this, the actual module may vary from the one shown in the picture.

## Conditioning Unit (Single Port) (Optional)
## 588111 (6411-A0)

The Conditioning Unit (Single Port) conditions and regulates the pressure of the air supplied to the pneumatic circuits. It consists of a main shutoff valve, filter, a pressure regulator, pressure gauge, sleeve valve, and a muffler. The Conditioning Unit (Single Port) requires compressed air from a central air supply or a portable unit.

## Specifications

| Parameter | Value |
|---|---|
| **Recommended Compressed Air Supply** | |
| Flow Rate | 28 L/min (1 SCFM) |
| Pressure | 207 kPa (30 psi) |
| **Filter Regulator** | |
| Maximum Air Flow Rate | 550 L/min (19 SCFM) |
| Operating Pressure | 48-690 kPa (7-100 psi) |
| Filtration | 5 µm (0002 in) |
| **Pressure Gauge** | |
| Diameter | 50 mm (2 in) |
| Operating Pressure | 0-690 kPa (0-100 psi) |
| **Physical Characteristics** | |
| Dimensions (H x W x D) | 75 x 170 x 120 mm (3 x 6.7 x 4.7 in) |
| Net Weight | 1.6 kg (3.6 lb) |

Reflecting the commitment of Festo Didactic to high quality standards in product, design, development, production, installation, and service, our manufacturing and distribution facility has received the ISO 9001 certification.



**Festo Didactic SE**

Rechbergstrasse 3
73770 Denkendorf
Germany

P. +49(0)711/3467-0
F. +49(0)711/347-54-88500

**Festo Didactic Inc.**

607 Industrial Way West
Eatontown, NJ 07724
United States

P. +1-732-938-2000
F. +1-732-774-8573

**Festo Didactic Ltée/Ltd**

675 rue du Carbone
Québec QC G2N 2K7
Canada

P. +1-418-849-1000
F. +1-418-849-1666

**www.labvolt.com**

**www.festo-didactic.com**