

Computer Interface Base Unit with Built-In Power Supply

580867 (91000-5X)

FESTO

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.

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General Description

The Computer Interface Base Unit with Built-In Power Supply contains 32 relays controlled by commands from the student's computer. The computerized base unit is linked to the computer automatically by the courseware when needed, and can also be activated via a USB port by the teacher through a password-protected software. Circuit modifications (CM) and faults are switched in and out automatically by the software. A message on the student's computer screen indicates that a CM or fault is activated. In the troubleshooting exercises, faults are also inserted automatically by the computer, thereby freeing the instructor to assist students with individual activities.

Additional Equipment Required to Perform the Exercises (Purchased separately)

Qty	Description	Model number
1	Virtual Instrument Package _____	8098535 (1250-20) ¹

Specifications

Parameter	Value
Power Requirements	
Service Installation	Standard single-phase ac outlet
Voltage	100-250 V ac
Current	0.4-0.65 A
Frequency	50/60 Hz
Computer Requirements	A currently available personal computer with USB 2.0 ports, running under one of the following operating systems: Windows® 7 or Windows® 8.
Physical Characteristics	
Intended Location	On a table able to support the weight of the equipment
Dimensions (H x W x D)	152 x 305 x 356 mm (6 x 12 x 14 in)
Net Weight	3.1 kg (6.9 lb)

Module Options Description

Virtual Instrument Package 8098535 (1250-20)



The Virtual Instrument Package replaces conventional desktop test equipment with a powerful, space-saving, virtual instrumentation package that gives students state-of-the-art tools to measure, analyze, observe, and display the results of electronic circuit tests.

Fully integrated with the FACET® Electronics Training program, the Virtual Instrument Package enables students to conduct all experiments of the FACET® curriculum. The complete Virtual Instrument Package consists of an interface unit for data acquisition connections, and a Windows-based software.

The interface is connected to the computer via a USB connection. The software displays the various instruments in separate windows and includes the following virtual instruments and signal source: a dual-channel oscilloscope, a multimeter, a spectrum analyzer, and a waveform generator.

¹ Can be replaced by the oscilloscope, multimeter and function generator. Can be replaced by a multimeter for boards 14, 15, 16 and 20 only. Requires a PC running Windows.

Specifications

Parameter	Value
Oscilloscope / Channels	
Nb channel	2ch
Type	BNC
Sampling rate	500 MS/s max
Range	±200mV to ±80V
Resolution	8, 12, 14, 16 bits, user selectable
Impedance	1 MΩ, 25pF
Oscilloscope / Trigger	
Source	Ch1, Ch2, External
Mode	Rising, Falling, inside/outside window
Level	0 to 100 % of full scale
DMM / Voltage mode	
Range	±200mV to ±80V
Accuracy	2% of full scale
Impedance	1 MΩ, 30pF
Protection	200 V
DMM / Current mode	
Range	20mA to 400mA
Accuracy	2% of full scale
Protection	electronic, self restoring fuse, 500mA
DMM / Resistance mode	
Range	100 Ω to 2MΩ
Accuracy	3% of full scale
Signal generator	
Output channel	1 analog, BNC
Resolution	12 bits
Signal type	Sine, square, triangle, arbitrary
Frequency range	0.1 to 20 MHz
Amplitude range	0.12, 1.2, 12 V
Accuracy	0.4 % of full range
Impedance	50 Ω

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.

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