

# Standard Functions (manual control) Set 581436 (8968-10)



**LabVolt Series**

Datasheet

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## General Description

The Standard Functions (manual control) Set is a package of control functions that can be activated in the Four-Quadrant Dynamometer/Power Supply, enabling the module to perform a wide variety of functions in each of its two operating modes (Dynamometer and Power Supply).

The set allows only manual control of the functions. This means that the Four-Quadrant Dynamometer/Power Supply operates as a stand-alone unit, and the function performed is selected, set, and monitored using front-panel mounted controls and display. The following control functions are available in the set:

Dynamometer operating mode

- Two-Quadrant, Constant-Torque Brake
- Clockwise Prime Mover/Brake
- Counterclockwise Prime Mover/Brake
- Clockwise Constant-Speed Prime Mover/Brake
- Counterclockwise Constant-Speed Prime Mover/Brake
- Positive Constant-Torque Prime Mover/Brake
- Negative Constant-Torque Prime Mover/Brake

Power Supply operating mode

- Positive Voltage Source
- Negative Voltage Source
- 200 V DC Bus
- Positive Current Source
- Negative Current Source
- 50 Hz Power Source
- 60 Hz Power Source
- Lead-Acid Battery Float Charger

## Specifications

Parameter	Value
<b>Control Functions</b>	
Control Functions	Two-Quadrant, Constant-Torque Brake
	Clockwise Prime Mover/Brake
	Counterclockwise Prime Mover/Brake
	Clockwise Constant-Speed Prime Mover/Brake
	Counterclockwise Constant-Speed Prime Mover/Brake
	Positive Constant-Torque Prime Mover/Brake
	Negative Constant-Torque Prime Mover/Brake
	Positive Voltage Source
	Negative Voltage Source
	Positive Current Source
	Negative Current Source
	50 Hz Power Source
	60 Hz Power Source
	200 V DC Bus
	Lead-Acid Battery Float Charger
<b>Two-Quadrant, Constant-Torque Brake</b>	
Torque	0-3 N·m (26.55 lbf·in)
<b>Clockwise/Counterclockwise Prime Mover/Brake</b>	
Speed	0-2500 r/min
<b>Clockwise/Counterclockwise Constant-Speed Prime Mover/Brake</b>	
Speed	0-2500 r/min
<b>Positive/Negative Constant-Torque Prime Mover/Brake</b>	
Torque	0-3 N·m (26.55 lbf·in)
<b>Positive/Negative Voltage Source</b>	
Voltage	0 to $\pm 150$ V
<b>Positive/Negative Current Source</b>	
Current	0 to $\pm 5$ A
<b>50 Hz/60 Hz Power Source</b>	
No-Load Voltage	0-140 V
<b>200 V DC Bus</b>	
Status	On or off
<b>Lead-Acid Battery Float Charger</b>	
Float Voltage	0-150 V

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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