

# Dual Function Generator 581549 (9402-10)

**FESTO**

LabVolt Series

Datasheet



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## General Description

The Dual Function Generator consists of two independent function generators (A and B), each capable of generating a sine-wave signal, a square-wave signal, a triangular-wave signal, a sawtooth-wave signal, and a pulse signal with variable pulse-width. The signal frequency can be varied from 10 Hz to 100 kHz through four ranges. A digital display is pushbutton-selectable between generators A and B to monitor the frequency of each generator. Each generator output signal level is continuously variable and may be attenuated by push button-selected switch attenuators. TTL output signals are provided to synchronize external equipment, such as an oscilloscope. Generator A may be frequency-modulated by a signal from generator B or from an external source.

The module is fully protected against short circuits and misconnections. Students use the instruments to make measurements in laboratory experiments performed on AM, FM, and digital communications systems.

## Specifications

Parameter	Value
<b>Power Requirement</b>	±25 V typ. – 3 A max; -25 V typ. – 3 A max.; +11 V typ. – 5 A max.
<b>Generators (A &amp; B) Rating</b>	
Waveforms	Sine, triangle, square, sawtooth, or pulse
Pulse Duty Cycle	10 to 90 %
Frequency Ranges	10-100 Hz, 100-1000 Hz, 1-10 kHz, 10-100 kHz
Frequency Display (switchable between A & B)	4 digits
Output Impedance	50 Ω
Output Level (open circuit)	10 mV p-p to 10 V p-p
Attenuator	0, 20, or 40 dB
Synchronization Outputs	One for each channel (SYNC/TTL)
<b>Frequency Modulation (Channel A only)</b>	
Input Impedance	100 kΩ
Maximum Frequency Deviation	50 % of each side of the rest frequency
Input Level for Maximum Deviation	10 V p-p
<b>Physical Characteristics</b>	
Dimensions (H x W x D)	162 x 330 x 300 mm (6.4 x 13 x 11.8 in)
Net Weight	4.4 kg (9.7 lb)

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