

Pyranometer 579784 (8989-00)

FESTO

LabVolt Series

Datasheet



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11/2024

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General Description

The Pyranometer is a high-quality instrument for measuring solar irradiance. The thermopile sensor construction measures the solar energy that is received from the total solar spectrum and the whole hemisphere (180° field of view). The output signal of the Pyranometer is a voltage proportional to the measured solar irradiance, expressed in Watts/m². The Pyranometer is a useful instrument when measuring the performance of solar panels versus insolation.

Specifications

Parameter	Value
Spectral Range	310 to 2800 nm
Sensitivity	5 to 20 $\mu\text{V}/\text{W}/\text{m}^2$
Response Time	<18 s
Maximum Solar Irradiance	2000 W/m^2
Field of View	180°
Operating Temperature Range	-40°C to +80°C (-40°F to +176°F)
Physical Characteristics	
Dimensions (H x W x D)	85 x 130 x 100 mm (3.4 x 5.1 x 3.9 in)
Net Weight	1.1 kg (2.4 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.

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