

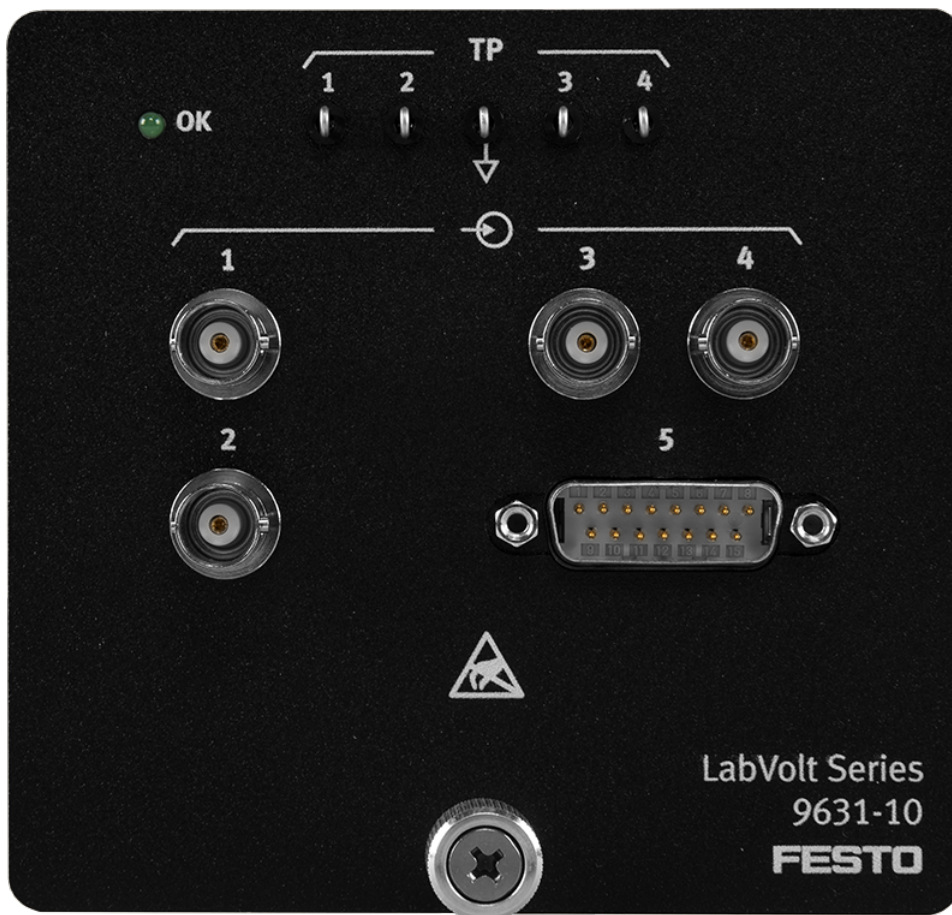
# Data Acquisition Interface

8112777 (9631-10)

**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.

Festo Didactic  
en  
12/2024

## Table of Contents

|                            |          |
|----------------------------|----------|
| <b>General Description</b> | <b>3</b> |
| <b>Specifications</b>      | <b>3</b> |

## General Description

The Data Acquisition Interface is a compact module designed to be installed into one of the slots on the RTM of the Radar Processor/Display. This module receives the I- and Q-channel echo signals of the radar, perturbed or not, and converts them to digital format. It also receives the PRF and synchronization signals as well as azimuth information from the Radar Synchronizer / Antenna Controller. All these signals are then routed to the RTM for digital signal processing.

The Data Acquisition Interface has two BNC-connector analog inputs to receive the I- and Q-channel echo signals. It also has two BNC-connector digital inputs where the PRF and synchronization signals are injected. A DB15 connector is provided as a digital input for the azimuth information. All these inputs are protected from misconnections within the system. Test points are available on the module's front panel to observe the input signals using a conventional oscilloscope.

DC power is automatically supplied to the Data Acquisition Interface when it is installed into the RTM.

## Specifications

| Parameter                       | Value                                   |
|---------------------------------|---|
| <b>Analog Inputs (2)</b>        |   |
| Voltage Range                   | -1.5 to +1.5 V                          |
| Impedance                       | 10 k $\Omega$                           |
| <b>Digital Inputs (2)</b>       |   |
| Parallel Digital Input          | TTL, 10 bits                            |
| Test Points                     | 4                                       |
| <b>Physical Characteristics</b> |   |
| Dimensions (H x W x D)          | 114 x 110 x 209 mm (4.5 x 4.3 x 8.2 in) |
| Net Weight                      | 0.6 kg (1.4 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.

Festo Didactic reserves the right to make product improvements at any time and without notice and is not responsible for typographical errors. Festo Didactic recognizes all product names used herein as trademarks or registered trademarks of their respective holders. © Festo Didactic Inc. 2024. All rights reserved.

**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](http://www.labvolt.com)**

**[www.festo-didactic.com](http://www.festo-didactic.com)**