

# Vacuum Gauge Controller

VGC083A, VGC083B



Installation Manual  
Incl. EU Declaration of Conformity

tiqa04e1-a (2017-06)

## Validity

This document applies to products with the part numbers:

399-700 (VGC083A)  
399-701 (VGC083B)

We reserve the right to make technical changes without prior notice.

## Further Information

Details about the intended use, scope of delivery, installation, operation, etc. you will find in the Operating Manual tinb29e1.

It can be downloaded from the USB memory stick or from our website ([www.inficon.com](http://www.inficon.com)). The memory stick is included in scope of delivery of the vacuum gauge controller.

## Safety

### Symbols Used

Information on preventing any kind of physical injury.

### Personnel Qualifications

All work described in this document may only be carried out by persons who have suitable technical training and the necessary experience or who have been instructed by the end-user of the product.

### Liability and Warranty

INFICON assumes no liability and the warranty becomes null and void if the end-user or third parties

- disregard the information in this document
- use the product in a non-conforming manner
- make any kind of interventions (modifications, alterations etc.) on the product
- use the product with accessories not listed in the corresponding product documentation.

## General Safety Instructions

Adhere to the applicable regulations and take the necessary precautions for all work you are going to do and consider the safety instructions in this document.

- Hazardous voltages are present with this product during normal operation. The product should never be operated with the covers removed unless equivalent protection of the operator from accidental contact with hazardous internal voltages is provided.
- Do not modify this product or substitute any parts without authorization of qualified INFICON service trained personnel.
- To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.

Communicate the safety instructions to all other users.

## Installation

**DANGER**

Putting a product which is visibly damaged into operation can be extremely hazardous. If the product is visibly damaged do not put it into operation and make sure it is not inadvertently put into operation.

The unit is intended for indoor use only.

Ensure the enclosure of the unit is connected directly to a good quality earth ground.

Ensure that the vacuum port on which the vacuum gauge sensors are mounted is electrically grounded.

In order to protect personnel from electric shock and bodily harm, shield all conductors which are subject to potential high voltage electrical discharges in or around the vacuum system.

## Rack and Control Panel Installation

The admissible maximum ambient temperature must not be exceeded (→ Operating Manual).

When mounting multiple units in your rack mount enclosure or mounting the unit below other electronic equipment in your rack, allow at least 1U of space (1.75 in., 45 mm) between the units to ensure adequate ventilation.

The single cut-out and dual cut-out rack mountable panels shown above are available from INFICON. Screws for mounting to rack enclosure are included.

Required cut-out for a control panel installation → Operating Manual. Use four # 10-32 Hex Nut (provided with instrument) to tighten the unit to the panel.

## Use as Desk-Top Unit

Select a location where the admissible maximum ambient temperature (→ Operating Manual) is not exceeded (e.g. due to sun irradiation).

## Mains Power Connection

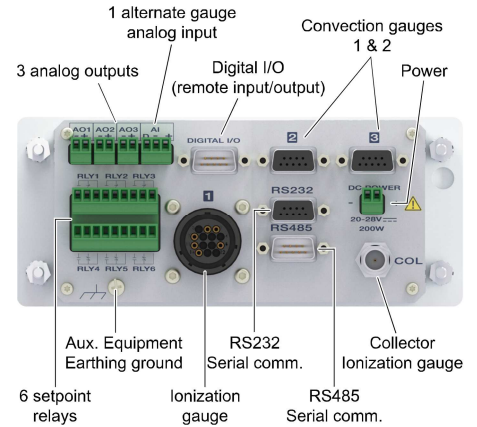
The VGC083 requires an input power of 20 ... 28 V (dc), 200 W to operate.

One each 2-contact pluggable terminal strip mating connector is provided for connection to the power contactors. Optional power supplies are also available from INFICON (ordering number 399-710).



## Connection of Gauge Cables, Relay, Analog Output, ...

→ Operating Manual



## Operation

### Applying Power

Before you turn on power to the VGC083 for the first time, ensure the cables from the VGC083 to the BAG05x nude ionization gauge and PGE050 convection gauges are connected and secured. Turn on power by pressing the Power key.

### Setup, Programming, Operation Gauges, Parameters, ...

→ Operating Manual



## EU Declaration of Conformity



We, INFICON, hereby declare that the equipment mentioned below comply with the provisions of the following directives:

- 2014/30/EU, OJ L 96/79, 29.3.2014  
(EMC Directive; Directive relating to electromagnetic compatibility)
- 2011/65/EU, OJ L 174/88, 1.7.2011  
(RoHS Directive; Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment)

Products Vacuum Gauge Controller  
VGC083A, VGC083B

Part numbers 399-700  
399-701

Standards Harmonized and international/national standards and specifications:

- EN 61000-6-2:2005  
(EMC: generic immunity standard for industrial environments)
- EN 61000-6-4:2007 + A1:2011  
(EMC: generic emission standard for industrial environments)
- EN 61010-1:2010  
(Safety requirements for electrical equipment for measurement, control and laboratory use)
- EN 61326-1:2013; Group 1, Class A  
(EMC requirements for electrical equipment for measurement, control and laboratory use)

Manufacturer / Signatures INFICON AG, Alte Landstraße 6, LI-9496 Balzers

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