

# Vacuum Gauge Controller

VGC083A, VGC083B, VGC083C



Installation Manual  
Incl. EU Declaration of Conformity

tiqa04e1-b (2018-07)

## Validity

This document applies to products with the part numbers:

- 399-700 (VGC083A)
- 399-701 (VGC083B)
- 399-702 (VGC083C)

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

## Further Information

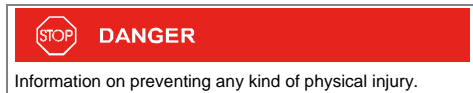
Details about the intended use, scope of delivery, installation, operation, etc. you will find in the following Operating Manuals:

- VGC083A, VGC083B: tinb29e1
- VGC083C: tinb42e1

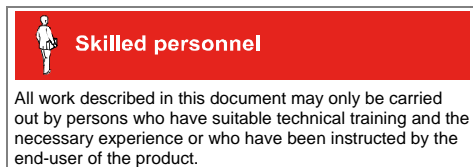
They can be downloaded from the USB memory stick or from our website ([www.inficon.com](http://www.inficon.com)). The memory stick is included in scope of delivery of the vacuum gauge controller.

## Safety

### Symbols Used



### Personnel Qualifications



## 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.

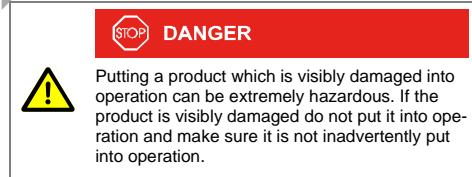
## General Safety Instructions

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



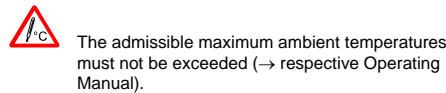
The unit is intended for indoor use only.

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

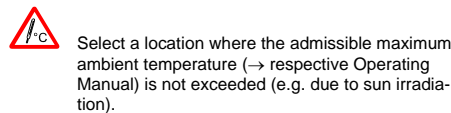


When mounting multiple units in your rack mount enclosure or mounting the unit below other electronic equipment in your rack, allow at least 1U of space (1.75 in., 45 mm) between the units to ensure adequate ventilation.

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 → respective Operating Manual. Use four # 10-32 Hex Nut (provided with instrument) to tighten the unit to the panel.

## Use as Desk-Top Unit



## Mains Power Connection

The VGC083x requires following input power:

- VGC083A** when used with BAG050, BAG051, BAG052, BAG053 20 ... 28 V (dc), 200 W
- VGC083A** when used with BAG055 20 ... 28 V (dc), 36 W
- VGC083B** 20 ... 28 V (dc), 200 W
- VGC083C** 20 ... 28 V (dc), 12 W

One each 2-contact pluggable terminal strip mating connector is provided for connection to the power contactors.



e.g. VGC083A

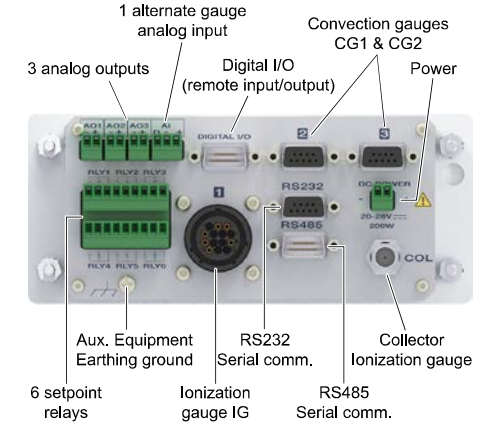
Optional power supplies <sup>1)</sup> are also available from INFICON:

	Ordering number
VGC083A	399-710
VGC083B, VGC083C	399-711

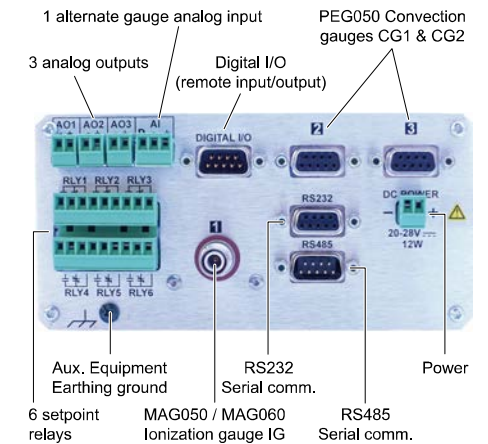
<sup>1)</sup> The conventional IEC60320 AC receptacle allows use with any user supplied AC mains power cord set available worldwide.

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

VGC083A, VGC083B (→ respective Operating Manual)



VGC083C (→ respective Operating Manual)



## Operation

### Applying Power

Before you turn on power to the VGC083x for the first time, ensure the cables from the VGC083x to the gauges are connected and secured. Turn on power by pressing the Power key.

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

→ respective Operating Manual



Original: English

## 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

VGC083C (operation with MAG050, MAG060)

Part numbers

399-700

399-701

399-702

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

3 July 2018

3 July 2018




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