

FRG Control Unit



Manual No. tqqa01e1
Revision --
September 2008

INSTALLATION MANUAL

Validity

This document applies to products with part number
FRG700CNTR1

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 Instruction Manual tqnb01e1.

The Instruction Manual you will find on the CD-ROM (included in scope of delivery of the control unit) or it can be downloaded from our website.

Safety

Symbols Used

 **DANGER**

Information on preventing any kind of physical injury.

Personnel Qualifications

 **Skilled personnel**

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

Varian 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.

STOP DANGER

DANGER: mains voltage
Contact with live parts is extremely hazardous when any objects are introduced or any liquids penetrate into the unit.
Make sure no objects enter through the louvers and no liquids penetrate into the equipment.

Communicate the safety instructions to all other users.

Installation

STOP DANGER

DANGER: mains voltage
Contact with live parts is extremely hazardous when any objects are introduced or any liquids penetrate into the unit.
Make sure no objects enter through the louvers and no liquids penetrate into the equipment.

STOP DANGER

DANGER: damaged product
The product can be damaged. Putting a damaged product into operation can be extremely hazardous.
In case of visible damages, make sure the product is not put into operation.

Rack and Control Panel Installation

STOP DANGER

DANGER: protection class of the rack or of the control panel
If the product is installed in a rack or in a control panel, it is likely to lower the protection class of the rack or the control panel (protection against foreign bodies and water) e.g. according to the EN 60204-1 regulations for switching cabinets.
Take appropriate measures for the rack or for the control panel to meet the specifications of the protection class.

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

Fastening screws are supplied the with Control Units for installation in a 19" rack chassis adapter acc. to DIN 41 494.
Required cut-out for a control panel installation → respective Instruction Manual.

Use as Desk-Top Unit

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

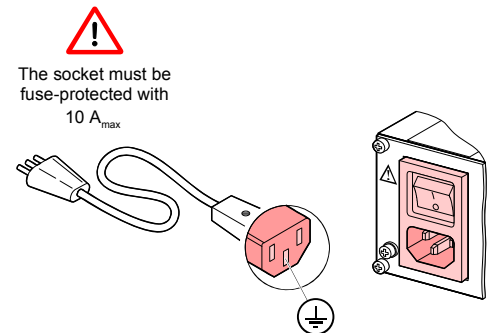
For the use as desk-top unit, self-adhesive rubber feet as well as a slip-on rubber bar are supplied with the Control Units.

Mains Power Connection

STOP DANGER

DANGER: line voltage
Incorrectly grounded products can be extremely hazardous in the event of a fault.
Use only a 3-conductor power cable with protective ground. The power connector may only be plugged into a socket with a protective ground. The protection must not be nullified by an extension cable without protective ground.

The unit is supplied with a power cord. If the mains connector is not compatible with your system, use your own, suitable cable with protective ground (3x1.5 mm²).



If the unit is installed in a switching cabinet, the mains voltage should be supplied and turned on via a central distributor.

Connection of Gauges, Interface, ...

→ respective Instruction Manual

Operation

Turning the Unit On

The power switch is on the rear of the unit. Turn the unit on with the power switch (or centrally, via a switched power distributor, if the unit is incorporated in a rack).

Turning the Unit Off

The power switch is on the rear of the unit. Turn the unit off with the power switch (or centrally, via a switched power distributor, if the unit is incorporated in a rack).



Wait at least 10 s before turning the unit on again in order for it to correctly initialize itself.



tqqa01e1

(2008-09)

Declaration of Conformity



We, VARIAN, hereby declare that the equipment mentioned below complies with the provisions of the Directive relating to electrical equipment designed for use within certain voltage limits 2006/95/EC and the Directive relating to electromagnetic compatibility 89/336/EEC.

FRG Control Unit

Part Number

FRG700CNTR1

Standards

Harmonized and international/national standards and specifications

- EN 50081-1 (Electromagnetic compatibility generic emission standard)
- EN 50081-2 (Electromagnetic compatibility generic immunity standard)
- EN 61010-1 (Safety requirements for electrical equipment for measurement, control and laboratory use)

Signatures

Varian Vacuum Technologies, USA

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