G5.RCU Remote Control Unit

The Remote Control Unit G5.RCU enables the user to remotely control a single G5 power supply unit or a G5 master-slave system without the need of additional control elements. The high resolution 5” color touch display allows comprehensive and convenient operation of the power supply. Various installation options such as a prefabricated 19” panel, front door or Power Distribution Unit (PDU) integration are available.

Installation Options

19” 3U front panel

The G5.RCU is pre-installed in a 19” 3U plate for easy integration in any control rack. This option has the ordering code “G5.RCU.19”

Front door installation in a PDU

With a G5.RCU installed in a Power Distribution Unit PDU, the system can also be controlled manually from within a test cell, while the DC power supply is installed in a safe place outside the test cell.

Front door installation in a IP54 system

In case the mobile system is IP54 rated, the G5.RCU installed in the front door of the cabinet fully replaces the G5.HMI in the device’s front panel. This allows the user to easily operate the system without opening the front door.

Functionality

The Remote Control Unit G5.RCU offers the same comprehensive and convenient operation of the power supply as the G5.HMI, which is mostly used for the standard local operation.

Clear system control is made possible by the use of different programming and indication pages.

Figure 1: Intuitive control by G5.HMI and/or G5.RCU touch displays. Everything you need at a glance.

Control Page

The control page offers the following possibilities:

- Indication of actual output values of voltage, current and power
- Set values for voltage, current, power and resistance by means of a keypad, step keys or a slider
- Setting of upper and lower limits

Funcgen Page

The page for the optional function generator offers the programming of the main parts of the function generator:

- General enable / disable of the function generator
- Selection of the control mode: voltage, current or power
- Selection of a time based curve form as sine, triangle, square wave, or user defined
- Programming of an AAP curve (parameter based nonlinear characteristic) e.g. controlled output current as a function of the voltage
- Specifying amplitude, offset, frequency, trigger modes, repetitions, sequences, etc.

Config Page

On the config page several device settings are possible:

- Setting trip limits for load protection
- Setting warning limits for load protection
- Defining slopes for set value steps
- Specifying values for the voltage sense

Menu Page

The menu page holds further possibilities to set up the device:

- Handling warnings and errors
- Specifying the communication parameters
- RCU display settings
- Time zone

Connection to G5 Device

The Remote Control Unit G5.RCU connects directly to the Ethernet port of the G5 device or the master unit of the G5 system. This enables remote control even over longer distances.

Direct Ethernet link

Figure 2: Direct link is also possible to the master device of a system

Ethernet link via a network switch

An Ethernet switch may be used to control the system from a remote computer, in parallel to an existing G5.RCU or to use the REST API in the G5.RCU.

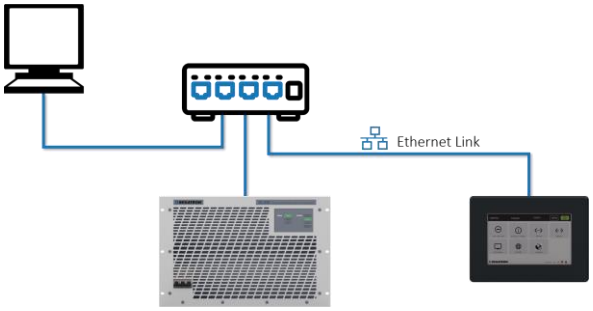

Figure 3: With an Ethernet switch, parallel operation of different input media is possible

Interfaces

Ethernet

To connect G5.RCU with:

- G5.Master device or,
- PC for software updates or,
- Control device using the REST interface (REpresentational State Transfer)

Supply

The G5.RCU is powered via an external 5 VDC / 10 W supply, which is not in the scope of delivery.

Environmental Conditions

The front of G5.RCU is designed to IP54 when installed in a suitable frontpanel or cabinet door.

This product is developed, produced and tested by REGATRON, ISO 9001 certified.

For detailed technical information, contact your local sales partner or REGATRON.

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