

Remote registration / Remote deregistration of a NERO II EM230 UP unit

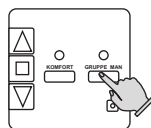
The optional remote registration / remote deregistration of the input module is sometimes a sensible alternative to the previously described registration / deregistration procedures. This option e.g. quick registration / deregistration of the input module to/ from a NERO II RS UP Universal Control Unit, which is already installed in a roller shutter or a distribution box. The simultaneous registration of the input module to all control units in an existing NERO II group can therefore often also be realised more quickly. The most important advantage of remote registration / remote deregistration is the fact that direct access to the already installed control units is often no longer required.

Thus a NERO II EM230 UP input module can, for example, be registered to all control units in an existing "South Facade" NERO II group:

Step 1 The programming mode of all control units in the "South Facade" group is remotely activated by the NERO II Central Panel or a group control unit (NERO II RS / NERO II RSF, which is registered as a local group control unit to all NERO II control units in the "South Facade" group).

Registration Groups
Registration is transmitted...

RemoteON



From NERO II Central Panel:

Select "Groups/South Facade/Registration" in the menu and quickly activate the "RemoteON" soft key (the option has to be activated under Settings / Optional / Extended Settings / Remote Maintenance").

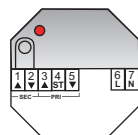
From a NERO II RS / NERO II RSF control unit:

Activate **group > 1 sec.** button then

activate **short Group** button

The programming mode of all control units in the "South Facade" group is activated.

Step 2 Activate input module programming mode, then transmit the appropriate programming command to the activated NERO II control units by means of a 230 V UP* or DOWN** switching command for the NERO II EM230 UP input terminals (e.g. using the buttons of a connected, external control unit):



NERO II EM230 UP

Activate **programming > 4 sec.** button.
NERO II EM230 UP programming mode is activated.

* **Short UP** "Store My Registration!" entry command

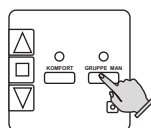
** **DOWN > 1 sec.** "Delete My Registration!" entry command

Activate **2x short programming** button
.NERO II EM230 UP programming mode is quit.


Step 3 Quit the programming mode on all control units of the "South Facade" group and complete programming.

Remote Maintenance
Remote Maintenance activated...

RemoteOFF



From NERO II Central Panel:

Quickly activate **RemoteOff** key - programming mode is quit on all control units in the "South Facade" groups. Complete programming by pressing 

From a NERO II RS / NERO II RSF group control unit:

Activate **short Group** button – the programming mode is quit on all control units in the "South Facade" group.

Activate **STOP > 1 sec.** button. Programming is completed.

CAUTION! The installation of devices and work on 230V mains should only be carried out by authorised specialist staff!

NERO II EM230 UP Input Module (Powerline Transmitter)

Programming



NERO II EM230 UP

The NERO II EM230 UP input module serves to integrate the NERO II control unit system into the existing house fittings and installations and offers an easy-to-operate alternative for upgrading an existing property with NERO II Powerline control units without customers having to undergo building and renovation work.

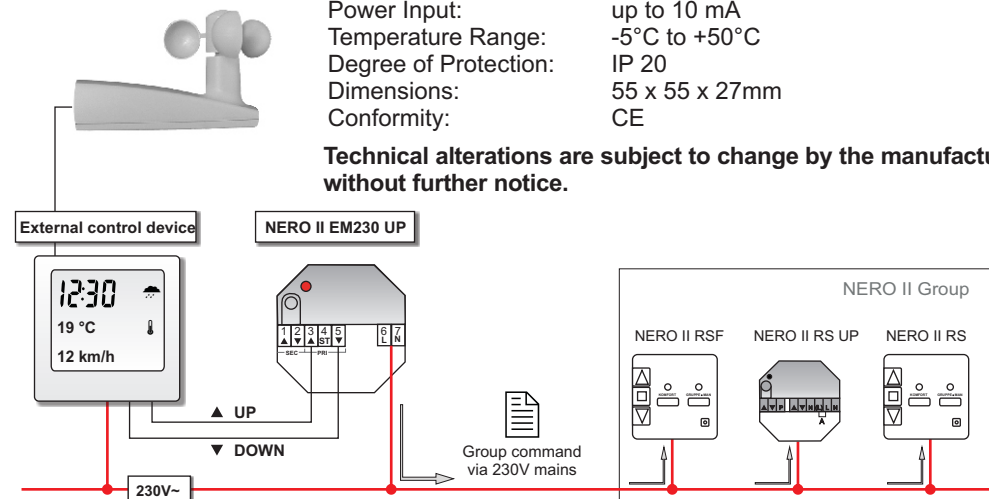
Similarly, an existing NERO II control unit system can be upgraded by using the input module together with external control units from other manufacturers and additional features.

The positioning and design of the existing control elements can be maintained by assembling the input module in a distribution box or in a deep installation socket directly underneath the existing control unit or an existing push button.

Technical Specifications

Supply Voltage:	230V/50Hz (+10% / -15%)
Power Input:	up to 10 mA
Temperature Range:	-5°C to +50°C
Degree of Protection:	IP 20
Dimensions:	55 x 55 x 27mm
Conformity:	CE

Technical alterations are subject to change by the manufacturer without further notice.



The NERO II EM230 UP input module processes the 230 V switching commands **UP**, **DOWN** (**ON/OFF**) and **STOP** (if available) of an external control device (e.g. a wind / sun sensor, radiocommand, roller shutter timer or Venetian blind push button), which are sent to the corresponding input terminals of the input module.

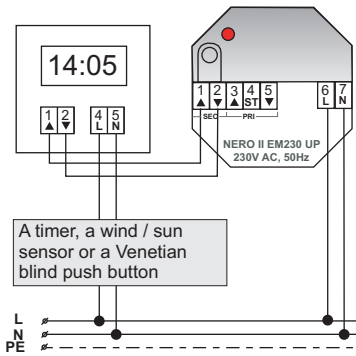
The incoming switching commands from an external control unit are received by the input module and transferred to all local NERO II devices, **to which the NERO II EM230 UP module has been registered**, by the 230V power supply system.

Connection of an external control device to NERO II EM230 UP

The NERO II EM230 UP control device has two groups of input terminals at its disposal, which are used for connecting an external control device (like, for example, a roller shutter timer, Venetian blind push button, a wind / sun sensor).

An external control unit can be connected to the first or second contact group of the input module dependent on the requested functionality.

SEC contact group (input terminals 1 and 2)

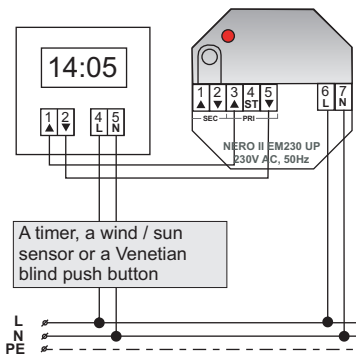


Incoming UP or DOWN switching commands from an external control unit / Venetian blind push button are further transmitted by NERO II EM230 UP via the 230 V mains as either UP or as DOWN remote control commands, which have no priority.

If an external UP or DOWN switching command is stopped, NERO II EM230 UP transmits a STOP command via the 230 V mains. A STOP command can also be transmitted simultaneously to terminals 1 and 2, if required, by transmitting a short 230V impulse (e.g. by activating both direction keys in the case of an unblocked double rocker switch).

Remote commands, which are triggered by this contact group, have **no priority**. If one of the local II control units is, for example, blocked against automatic remote control commands then the incoming commands of NERO II EM230 UP are ignored (see section on **"Blocking control unit and priority of control commands"** in the introduction of the appropriate local NERO II control unit).

PRI contact group (input terminals 3, 4 and 5)



The UP and DOWN outputs of an external control unit connected to an input module are linked with the appropriate inputs 3 (UP) and 5 (DOWN) on NERO II EM230 UP.

If an external control unit has a separate 230 V output for the STOP command then this can be connected with input terminal 4 (ST) on NERO II EM230 UP.

Short (up to 0.5 sec.) 230V switching impulses of an external control unit to the input terminals 3 (UP) and 5 trigger the transmission of the appropriate UP or DOWN remote control commands, which have no priority, from NERO II EM230 UP via the 230V mains supply

If voltage is applied to terminals 3 (UP) or 5 (DOWN) for longer than 0.5 sec. (like, for example, when a connected wind / sun sensor transmits a switching command if the wind is too strong), the input module transmits the appropriate **"UP + Block"** or **"DOWN + Block"** priority commands. The reception and execution of these priority commands can not be prevented by blocking the local NERO II control units. The local NERO II control units execute the priority command and temporarily block all other operating functions. Blocking a local NERO II control unit is confirmed by a bleeping sound. The following flashing of the LED signals that the duration of the block.

As soon as the consistent command of an external control unit is blocked on input terminals 3 or 5, NERO II EM230 UP transmits the remote command **"Cancel Block"** via the 230V mains.. The block to a local NERO II control unit can also be cancelled by activating the UP / STOP / DOWN operating keys on this control unit for more than 4 sec., if required.

An additional STOP remote command can be transmitted by means of a short 230V switching command to input terminal 4 (ST) or a simultaneous switching command to both input terminals 3 and 5 on NERO II EM230 UP (e.g. to interrupt a switching procedure by simultaneously activating both direction keys on a blocked double rocker switch).

Registration of NERO II EM230 UP to a local NERO II control unit

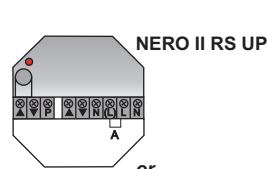
The input module can be registered to a local NERO II control unit (like, for example, NERO II RS UP, NERO II RS or NERO II RSF) by carrying out the following programming steps:

NERO II EM230 UP



- Activate programming mode:
- Activate **programming > 4 sec.** button. 2
- LED : quick red flashing light
- Registration of the input module is regularly transmitted.

Local NERO II Control Unit



- Activate programming mode on local NERO II control unit:
- Activate **programming > 4 sec.** button. 2
- Tone: regular bleeps every 2 sec. LED : quick red flashing light
- Store registration of input module on local control unit:

NERO II RS UP: Activate **programming > 1 sec.** button 2
 NERO II RS / RSF: Activate **short UP** button

Tone: **3 x bleeps** LED : **3 x green flashing light**

Quit programming mode on local control unit:

NERO II RS UP: Activate **2x short programming** button 2
 NERO II RS / RSF: Activate **STOP > 1 sec.** button

Tone: **2 x bleeps** LED : **2 x yellow flashing light**

NERO II EM230 UP

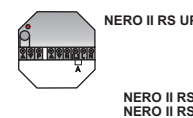


- Quit programming mode on the input module:
- Activate **2x short programming** button 2
- Tone: **2 x bleeps** LED : **2 x yellow flashing light**
- Programming is completed.

Deregistration of NERO II EM230 UP from a local NERO II control unit

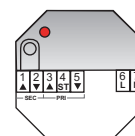
An existing registration of NERO II EM230 UP can be deleted from the storage of the local NERO II control unit (NERO II RS UP, NERO II RS or NERO II RSF) by carrying out the following programming steps:elüsch werden:

Local NERO II Control Unit



- Activate programming mode of local NERO II control unit:
- Activate programming **> 4 sec.** button. 2
- Tone: **regular bleeps every 2 sec.** LED : **quick red flashing light**
- (Programming mode is automatically quit after 30 sec., if no there is no further programming!)

NERO II EM230 UP



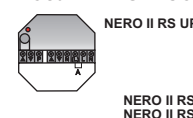
- Activate programming mode:
- Activate **programming > 4 sec.** button. 2
- LED : quick red flashing light
- Transmit deregistration (remote command to delete registration):

Activate **programming > 1 sec.** button. 2
 Tone: **1 x long bleep** LED : **lights up red** and continues to flash

Quit programming mode on the input module:

Activate **2x short programming** button. 2
 Tone: **2 x bleeps** LED : **2 x yellow flashing light**

Local NERO II Control Unit



- Quit programming mode on the input module:
- NERO II RS UP: Activate **2x short programming** button 2
 NERO II RS / RSF: Activate **STOP > 1 sec.** button
- Tone: **2 x bleeps** LED : **2 x yellow flashing light**
- Programming is completed.