

NG-Rio

Loads' remote control



- > 2 inputs for ON/OFF status and/or pulses from the connected meters (electricity, water, gas) and 2 relay outputs.
- > Wireless connection to NG-W169, the Gateway with RTU Modbus RS485 serial. NG-Rio sends inputs' status to receive the outputs'.
- > Wireless communication with other NG-Rio. A local input to control remote outputs.
- > Automatic installation procedure for the 169MHz wireless network.
- > 169MHz radio frequency band to cover distances up to 1 km. Particularly suitable for indoor installations.

Applications

Local control of remote loads (e.g. ON/OFF) sending the information to the gateway (NG-W169) that, via RTU Modbus protocol, makes the data available; NG-Rio can manage loads' ON/OFF management with its output relays (e.g. lighting, HVAC, etc.). Reduce installation time and costs and avoid wire connection between the control panel and the load to monitor.

General	
AC power supply	100 ÷ 240 Vac 50/60 Hz
DC power supply	140 ÷ 340 Vdc
Consumption	< 0.2A @ 85Vac-265Vac, at full load
Protection	Over Current and Over Temperature
Dimensions	3 DIN modules (approx. 54x90x60mm)
Box	PC + ABS
Weight	100g
Front panel	GREEN LED for operative status signals RED LEDs for outputs status
Working temperature	-10 °C to +65 °C

Min 3 kV insulation between power supply and digital Input, relay Output and antenna connection

Inputs	
Type	Clean contact – active 12 Vdc insulated digital pulse up to 30 Hz frequency and 15 milliseconds minimum pulses' duration
Connection (3,5mm pace)	Extractable polarized connector.
Outputs	
Type	C-NC-NO Relays
Flow	250V - 12A (500mW min)
Guaranteed cycles	250.000
Control	Internal, Electronic
Protection	275V Varistors for contacts' overvoltage
Connection (5mm pace)	Extractable polarized connector.
Frequency	169 MHz
Power	+15 /+21 /+27 dBm
Antenna connection	Female SMA