«F&F»®

| GSM REMOTE CONTROL RELAY | SIMply MAX P02 |

CE
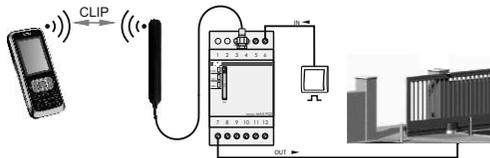
Purpose

SIMply MAX P02 is a GSM relay which allows to remotely open automatic gates, garage doors, barriers using a mobile phone. It can be used for objects with protected access and a large number of users in order to eliminate cost of remote controls for every user.

Functions

* cost-free operations (GSM CLIP service)
* two output relays with separated switching time settings
* possibility to set two different close times for both outputs
* two inputs witch can be used to direct control of the devices with external switches
* automatic close function with programmable delay
* PC configuration software
* memory for 500 mobile phone numbers
* remotely add and delete numbers using SMS commands

Functioning

Relay can works with any GSM 900/1800 mobile operator (no SIMLOCK). In order to operate properly a valid SIM card has to be installed.

Controller has two output relays used to generate external signals for gate openers or electric door bolts. Both of relays are working parallel but different signal durations can be set.

Thanks to the use of CLIP service all of commands are performed with no additional costs. The user dials to the controller number and waits until the controller rejects his connection. Relay verifies incoming phone number and decide to execute or ignore command. Additional external switches can be connected to device in order to control relays manually. In automatic mode, the relay output is activated again after a certain time in order to close the gate.

Phone numbers of users and times of pulses and automatic switch off are set by the configuration program on the PC (P02 Config).

SMS configuration

ADDING / DELETING USERS IN THE SMS MODE

WARNING! Available only after you define the administrator.
You can define up to 10 numbers of the users at once.
Defining and removing numbers:
ADD <phone_1> <phone_2> ... <phone_10> - defining the numbers.
You can add numbers in group or individually. The relay will send an SMS with the confirmation of the numbers addition:
OK ADD <phone_1> <phone_2> ... <phone_10>

DEL <phone_1> <phone_2> ... <phone_10> - deleting the numbers.
You can delete numbers in group or individually. The relay will send an SMS with the confirmation of the numbers deletion:
OK DEL <phone_1> <phone_2> ... <phone_10>

ADMINISTRATOR FEATURE

The feature that allows you to remotely add and delete phone numbers of users, restore factory settings and change the number of the administrator. Definition:
ADMIN <phone no.> <phone no.>
Example: ADMIN +48123456789 +48123456789
Enter the administrator number twice in order to verify it and set it correctly. You automatically get a return text message (SMS) reply:
OK ADMIN: <phone>   - definition accepted
ERROR ADMIN: WRONG PHONE   - numbers do not match
ERROR ADMIN: MISSING PHONE   - number is not repeated
ERROR ADMIN: WRONG FORMAT   - wrong format of the numbers
ERROR ADMIN: ALREADY DEFINED - ADMIN already defined

RESET SETTINGS and ADMINISTRATOR

A feature to restore factory settings and change the number of the administrator.
PLEASE NOTE!
This option is available only after you have defined the administrator.
Reset - sending the RESET command from any phone, without a password (although it is set), will result in automatic reply to the phone of the administrator.   He receives a message with a generated one-time code, for example   RESET 12345678. The command along with the code (for example: RESET 12345678) should be send to the relay within 3 minutes.

Program P02 Config

COMMUNICATION

PC software can by run on computers with following operating systems: Windows 2000, Windows NT, Windows XP, Windows Vista, Windows 7, Windows 8, Windows 10.
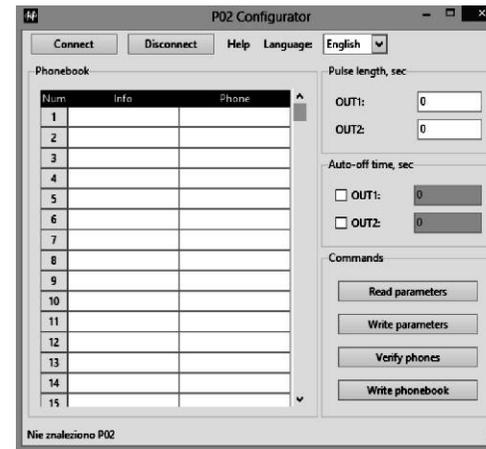Before first run USB driver has to be installed. In order to perform the installation user has to run CDM20802_Setup.exe file. After the installation controller should be connected with PC via USB cable (USB-miniUSB).

PC software

Software available on: p02.fif.com.pl
Software packet consist two files. The P02Config.exe is a application allowing to setup the SIMply MAX P02. The „phonebook" file stores phone numbers and user descriptions.
Run P02Config.exe and wait for the controller connection. Software should establish the connection automatically.

SIMply MAX P02 messages

SIMply MAX P02 successfully connected - connected
SIMply MAX P02 disconnected - disconnected
SIMply MAX P02 not found - connection failed
Searching - connecting to SIMply MAX P02
Success - operation is OK
Failed - operation failed
Reading phones - reading phones numbers
Writing phones - saving phone numbers
Read success - verifying - comparing data between controller and „phonebook" file.

Menu

Connect - connect to the controller
Disconnect - disconnect controller

Help
Information about PC software version.

Phonebook
Mobile phones numbers and descriptions form "phonebook" file.

Commands
Read parameters - read current setup.
Write parameters - write new setup.
Verify phones - verify content of the controller memory and "phonebook" file.
After the verification the controller will show one of this message:
* Phones are identical! - all of mobile phone numbers stored in controller memory match with "phonebook" file.
* Phone are different! - the differences were detected. After this controller will ask if user wants to restore memory with data stored in "phonebook": Restore from phonebook? YES/NO.
Write phonebook - write phone data to the controller and "phonebook" file.

Pulse
This parameter controls the relay closing time for corresponding output (practical time is in 1-2 s range).

Closing time
This parameter controls the time of delay for automatic close function. When auto-off time elapses the relay will close for the 2nd time.

LED indicators description

* POW - power supply ON.
* STAT blinks for 0.5s with 1s period, GSM - turned off.
  No SIM card.
* STAT blinks for 0.25s with 0.5s period, GSM turned off Could not connect to the mobile operator (Make sure that SIM card PIN code is disabled).
* STAT blinks for 0.5s with 1s period, GSM turned on connecting to the GSM network.
* STAT turned on or blinking, GSM blinking normal operation:
  - Signal strength indication by the number of LED GSM flashes: 0.15 seconds with a period of 6.0 s (from 1 to 5 flashes)
  - Indication of communication through the number of LED STAT flashes: 0.5 s with a period of 6.0 s:
    1 flash - input SMS,
    2 flashes - output SMS,
    3 flashes - output SMS error,
    6 flashes - voice call
* STAT turned off; GSM turned off - restart of controller is required.

SIM card comments

SIM of the P02 relay:
* It is recommended to use the SIM card with the so-called **telemetric tariff / m2m**. Ask at the GSM operator!
* The first activation of the SIM card of the controller should be made on any phone of the user (send SMS or make a voice call).
* Clear the memory of the inbox.
* Deactivate the PIN. If the PIN is active, the relay will not log on to the network of the operator and it will prevent communication. Deactivate the PIN using any mobile phone.
* In case of the usual tariff (not telemetric), it is recommended to turn off any additional operator services assigned to the SIM card, for example free text message alerts, voice mail, operator IVR voice menu for free notifications, etc.
* First run of the SIM card on the relay may take several minutes. This is due to the registration of the unknown device model and finding the correct configuration of the system by the operator.

SIM of the user's phone:
* Set the input mode of the text messages as TEXT (not UNICODE)! By default, the GSM operators set the TEXT mode. If the relay ignores text messages you should check the settings and adjust them correctly.

Software version

Software version is published in the text of a return SMS of the **SOFT** command.
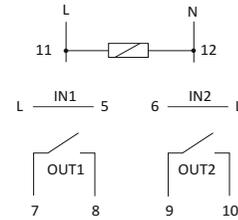*Sample.*
SOFT:
VER:1.13 [software version]

Manual for the correct software version available on:
www.fif.com.pl

Wiring diagram

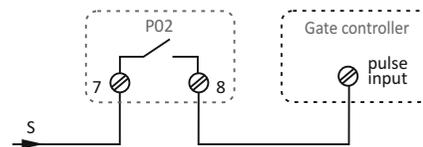|		
5	1st input	
6	2nd input	
7-8	1st output (separated relay)	
9-10	2nd output (separated relay)	
11-12	power input	

Wiring

Note!
The gate controllers can have different input types. (L, N or potential free input [short circuit]). Before wiring check the gate controller technical documentation and chose suitable option from the presented examples.

Input signal wiring for the manual control example. (terminal no. 5)
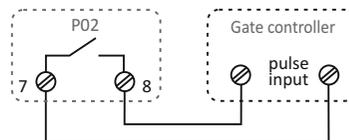
Connecting control signal to pulse input gate controller

a) N or L signal input

b) non-voltage input

Assembly and connection

1. Make sure the power is turned off.
2. Mount the SIMply MAX P02 on a DIN rail.
3. Connect the power supply to the device: (L - terminal no. 11; N - terminal no. 12).
4. Place the antenna in a place where the GSM signal is strong and plug the antenna connector into the controller.
5. Use a thin screwdriver to press the SIM card tray release button, place a SIM card on the tray and push it back into the controller. Make sure that you are using a SIM card without PIN code protection. You can easily disable PIN protection using any mobile phone.
6. Connect input signals and output devices according to wiring examples.
7. Turn on the power supply.

Technical data

power supply	230V AC
inputs	
quantity	2
voltage tolerance	160÷260V AC
outputs relays	
quantity	2
type	1×NO
rated voltage	230V AC
rated load	<8A
ports	SIM, USB-mini
power consumption	
standby	1.3W
GSM communication	<3W
working temperature	-10÷50°C
terminal	2.5mm² screw terminals
tightening torque	0.4Nm
dimensions	3 modules (52mm)
mounting	on TH-35 rail
GSM antenna	SMA connector / dim. 20×100m / l=2.5m
stopień ochrony	IP20

«F&F»®

SW.VER.01.13
D161209