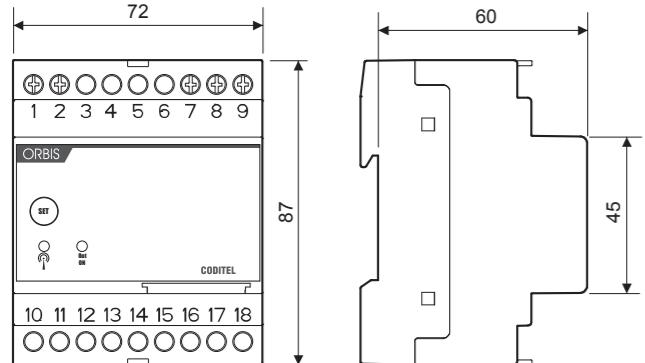


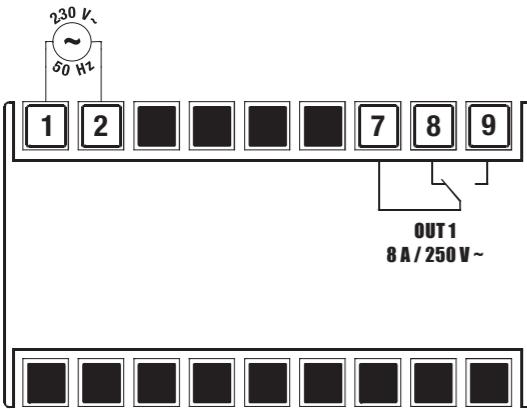
## CODITEL

499-010

## DIMENSIONS



## CONNECTION DIAGRAMS



## DEFAULT SETTING

Password	12345678
Relay output status	OFF
ADMIN number	Undefined
USER numbers	Not defined
Caller control	Active
Automatic call answer	Disabled
Response to sms commands	Active
Forward unknown sms	Active

## GATE-OPENER FUNCTION

- To use CODITEL as gate-opener is enough insert a sim card, feed supply power the instrument and wait for the green led to flash. Press the button for at least 5 seconds to enter in the programming mode. Make a ring from a telephone number which will be configured as admin number. From this number, send a message containing the list of numbers that to be abilitated as gate-opener mode, by the command:

**USERADD** [list of numbers to be added]

The numbers to be added must be in international format +39... and separated by an empty space between each number. If the message is longer than 160 characters, divide it in more sms.

Numbers are now abilitated to open the gate.

**Note. CODITEL sends an impulse of 2 seconds to the unit gate-opener. To modify the duration of the impulse, see the OUTRING command.**

User manual  
GSM COMMUNICATION INTERFACE  
Read all instructions carefully

- CODITEL** is a communication interface in a container of 4 DIN modules, which uses GSM technology to enable the remote control of electric services in the home. The output relay can be controlled by sending a text message from your mobile phone or by ringing an enabled telephone service, thus saving the cost of the text message. The instrument also offers the option of receiving a text message confirming activation.

## SAFETY WARNINGS

- During the installation and operation of the device observe the following instructions:**
- The device must be installed by a qualified person**
  - The device is aimed to be used in household premises and similar environments**
  - Do not use the device for purposes other than indicated**
  - A two-pole disconnect device shall be provided as part of the building installation**
  - A protection device against over-currents should be installed in the electrical system, upstream of the device**
  - When installing the device, carefully respect the wiring diagrams**
  - Disconnect the device from the power supply before accessing to the terminals**
  - Do not power or connect the instrument if any part of it is damaged**
  - The use of a GSM device can cause interference with the functioning of electronic devices non-screened from radiofrequency signals (electromedical devices, pacemakers, hearing aids etc.)**
  - In case of fault, do not service the device yourself but contact the after-sales service.**
  - The device is aimed for use in place with over-voltage category III and pollution degree 2, as per standards EN 61010-1.**

## TECHNICAL CHARACTERISTICS

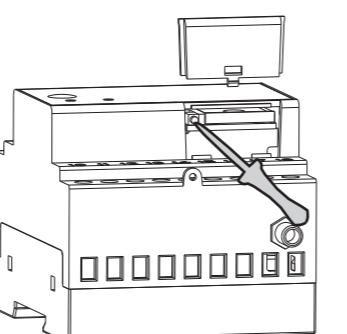
- Power supply: 230 V~ (-10% ÷ +10%) 50Hz
- Consumption: 4VA
- Connection:
  - cables with max 6 mm<sup>2</sup> section
- Output
  - a bistable relay with exchange contact
  - breaking capacity: 8(5)A/250V~
- GSM Dual Band module (900-1800 MHz)
- SMA-F connector for external aerial (included in the box)
- You can store up to 100 numbers
- Signal LEDs:
  - Red LED for signalling the output relay status
  - Red/green two tone LED for signalling the device status
- Multipurpose button for instrument programming
- Operating temperature: 0 ÷ 50 °C
- Operating humidity: 10 ÷ 90% noncondensing
- Storage temperature: -10 ÷ +65°C
- Protection: IP40
- Container: 4 DIN modules

## INSTALLATION

- In order for the instrument to operate, a sim card enabled for telephone traffic needs to be inserted in the relative slot.

**Note. Ensure that the power cables are disconnected before inserting the sim card.**

Remove the cover and use a sharp object to press the slot release mechanism, as illustrated in the box alongside:



**Attention. The SIM should have the PIN code request and the answerphone deactivated.**

- Once the SIM has been inserted, power the instrument by connecting the wires as illustrated in the "connection diagrams" box. The status of the device is signalled by the bicolor led :
- OFF: → system not fed  
BLINKING RED: → sim not inserted or pin code in activity  
FIXED RED: → GSM field insufficient  
FIXED GREEN: → starting system/network research  
BLINKING GREEN: → connected to GSM network  
QUICKLY BLINKING GREEN: → arriving in command (ring or sms)  
QUICKLY BLINKING RED: → programming mode active
- Once it has been connected, the instrument will become fully operative within around 30 seconds, during which the instrument status LED will be a fixed green colour (the time needed to search for the network and initialise the instrument may vary on the basis of the GSM field in which the instrument is installed and the provider used).

Once the initialisation phase is completed, the green LED will start to flash with a frequency of 1Hz and the instrument will be ready to receive commands via text message or a ring on the telephone.

**Note. If the device will be installed into a screened panel, it is possible to replace the antenna included in the kit with another one with 3 meters cable. The longer antenna is available as optional. Ensure that the power cables are disconnected before replace the antenna.**

## OPERATION

## Reset the device

- When it is switched on for the first time and whenever it is reset, the instrument will be set with the default parameters. To do a reset, switch on the device and press the key shortly in three seconds. The led relative to the output will blink for few seconds.

## Set the certified numbers

In order to use the instrument, it is necessary to begin by setting the number of admins and the user numbers enabled (if any). Pressing the key for a long time (at least 5 seconds) allows you to enter the programming mode, where you can enable/disable the various telephone services.

## Setting the admin number

After switching the instrument on and after each reset, for the first time and having entered programming mode, the first telephone number that makes a call will automatically be configured as the admin number. The admin number can be changed later on by sending a text message from the current admin number with the command:

**ADMIN** [new admin number] (the new admin number must be in international format +39...)

If you lose the admin number, it can only be changed by forcing an instrument reset. To retrieve automatically all the user numbers, see the section "Sim management".

## Setting the user number

The user numbers can be entered/removed simply via a telephone call when the instrument is in programming mode. The caller's number will be entered/removed on the basis of whether it is respectively not present/present in the phone book. A confirmation text message will be sent to the caller, indicating the number of locations occupied out of the total number available. Alternatively, the user numbers can be added or removed by sending a text message from the admin number with the commands:

**USERADD** [list of numbers to be added]  
**USERDEL** [list of numbers to be removed]

The numbers to be added must be in international format +39... and separated by an empty space between each number.

## Commands

CODITEL has a relay output whose status is signalled by a red LED (on → output ON). It is possible to work on the output as follows:

- with the key on the front panel, which can be used to force the output switch. The admin number can set the output action after pressing the key with the command:

**OUTKEY** [functionality]  
with functionality that can assume the values:

- RING → it reacts as it does to a call when the key is pressed
- TOGGLE → the key switches the output ON/OFF in bistable mode
- BLOCK → disables the key functionality (it is not possible to access programming mode when in this mode)

If the value is omitted, the current instrument status will be the response.

- with telephone call from an enabled number.  
The admin number can define the action of the instrument when it receives a call by sending a text message. The possible commands are:

**RINGRISP** [status]  
with status that can assume the values:

- ON → sends a text message confirming activation to the caller
- OFF → no confirmation text message to the caller

If the value is omitted, the current instrument status will be the response.

**RINGCONTROL** [status]  
with status that can assume the values:

- ON → controls the caller number to check whether it is enabled
- OFF → does not check the caller number (function used when you wish to temporarily allow any number to control the instrument)

If the value is omitted, the current instrument status will be the response.

**OUTRING** [output status] [status permanence time] [time unit of measurement]  
in which the parameters can assume the following values:

- output status → ON, OFF, TOGGLE, DISABLE
- status permanence time → maximum (2<sup>32</sup>-1) seconds (optional parameter)
- time unit of measurement → s seconds, m minutes, h hours (optional parameter)

Examples:

OUTRING OFF 10 S → the relay is turned OFF for 10 seconds when the call is received  
OUTRING DISABLE → the relay does not do anything when the call is received  
OUTRING TOGGLE → the relay changes status when the call is received

- text message from the admin number or another number (via password).  
The structure for all the commands is as follows:

[password] [separator] [command] [separator] [parameter1] [separator]..[parameterN]  
where:

[password] → numerical field of a maximum of 8 figures  
[separator] → comprised of one or more space characters  
[command] → command recognised by the device  
[parameter..] → series of parameters relative to the command

**The password field may be omitted if the command is given by the admin number. Several commands may be included in one text message. In this case,**

**the commands executed will only be those whose response is contained in a standard text message (160 characters). To enter numbers with the decimal separator, you need to use a full stop.**

The structure of a response to a command is similar to the command itself, with the addition of the "=" symbol to indicate the current status. For example:

OUTKEY BLOCK → OUTKEY=BLOCK

In addition to those listed above, the commands which can be made via text message are:

## Setting the output status

**OUT** [output status] [status permanence time] [time unit of measurement]  
where:

- output status → ON or OFF
- status permanence time → (2<sup>32</sup>-1) seconds (optional parameter)
- time unit of measurement → s seconds, m minutes, h hours (optional parameter)

If the output status is omitted, the response will be the current instrument status.

## Setting the sending of a caller response message

**OUTRISP** [status]  
with status that can assume the values:

- ON → enables the sending of a text message in response to the caller
- OFF → disables the sending of a text message in response to the caller

If the status is omitted, the response will be the current instrument status.

Example:  
OUTRISP ON

## Displaying the output status and the settings

## OUTINFO

A possible answer could be the following:  
OUT=ON OUTRING=ON 5s OUTRISP=ON RINGRISP=OFF OUTKEY=TOGGLE  
It means:  
output ON, ON for 5 seconds when the call is received, confirmation to the sms abled, confirmation to the ring disabled, the key switches the output on/off in bistable mode.

## Changing the output name

## OUTTXT

Example:  
OUTTXT valvola assigns to the output the name valvola

**A string of a maximum of 10 characters with no spaces can be assigned as a name. To restore the original name, just write OUTTXT NO. If an alternative name is defined for the output, this name can be used instead of OUT1.**

For example:  
valvola ON 10 M active output (valvola) for 10 minutes

## Enabling the forwarding function (for admins only)

## FORWARD

It's possible set any number. In this case, the sms that no contain command for the device are forward to the number specified. If not modified, the number that received the unknown sms is the admin.  
FORWARD OFF disabled this function.

Example:  
FORWARD +391111234567 forward to the 11111234567 number the sms that no contain commands

## Password management (for admins only)

## PASS

Example:  
PASS 12345678 with new password with a maximum of 8 figures

## Sim card management (for admin only)

**STORE** copy in sim card all the number saved in the device  
**RESTORE** restore only the numbers saved with the command STORE

These commands are particularly useful in the case of reset, with consequent loss of the user numbers saved in the device.  
For this, we recommand you to do a STORE when all the numbers are abilitated.

## REFERENCE STANDARDS

Conformity to the EU directive:

1999/5/CE R&TTE

declared in reference to the Harmonised Standards:

**Safety:** EN 60950-1

**Electromagnetic compatibility:** EN 301489-1 and EN 301489-7