Install this unit

on a standard EN-50022 rail by simple snap-in. Put your SIM card into a cellular phone and program it so it won't ask for the PIN, you may protect your SIM card later.

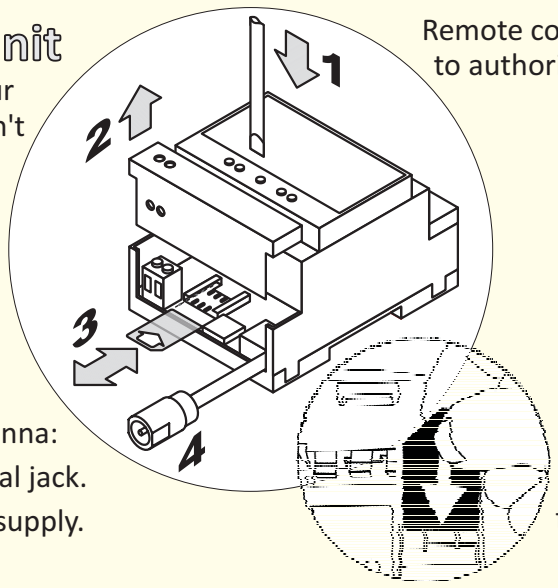
Remove power supply and optional battery, then:

1. Unlock the terminal cover using a screwdriver.
2. Slide up the top lid.
3. Insert the SIM card, contacts on the bottom side.

The embedded antenna located under the front panel can work properly if the device is not shielded by metallic frames. When the unit needs an external antenna:

4. Connect an external antenna to the FME male coaxial jack.

Make all suitable connection and then provide power supply. Do not operate without covers.



Remote control of local outputs by means of free calls or SMS is allowed only to authorized users previously stored in the SIM card or device phonebooks.
The simplest solution to

add, modify or delete SIM card USERS

is by using a GSM mobile phone: following operating instructions provided by phone manufacturer, insert the SIM card into the SIM cardholder, turn on the phone and scroll the option menu to enter the SIM card phonebook edit mode: enter the users name and telephone number using international format. Insert the SIM card into the device SIM cardholder and turn on the power supply. The unit is ready to operate.

GsmSuite

a complete configuration management tool, is available for free download. Remote configuration by means of SMS is reserved to supervisors, up to 100 can be stored in the internal memory.

Anyone can register itself as the

first supervisor

issuing the following SMS:

`#xxxx,name*`

`xxxx` device PIN code
factory default is 0000
`name` supervisor's name
up to 14 characters

Telephone number of SMS sender is collected from the incoming call presentation (the telephone number must be visible) and will be assumed as the supervisor's phone number.
The unit will send SMS to confirm the storage at position 401 or an error in case of failure .

SEND
`#0000,Harry Potter*`
RECEIVE
`332: Supervisor successfully added`

Any supervisor can

add more supervisors

issuing the following SMS:

`+7,,phone,name`

`phone` recognized phone number
up to 20 characters
`name` supervisor's name
up to 14 characters

It's better to store the phone number using international format.
An SMS will confirm the successfully storage of new supervisor at the first available phonebook position.
This procedure doesn't work if the supervisors phonebook is empty.

SEND
`+7,,+4409876543210,Hermione`
RECEIVE
`402,Hermione,*------`

Any supervisor can

remove supervisors

issuing an SMS specifying the name:

`-7,,,name`

or specifying the phone number:

`-7,,phone`

`phone` phone number to delete
up to 20 characters
`name` name of supervisor
to be removed
up to 14 characters

Name must match exactly the stored one (uppercase, lowercase, spaces).
An SMS will confirm the operation.
Removing all the supervisors, the first supervisor procedure must be used.

SEND
`-7,,,Hermione`
RECEIVE
`402`

Any supervisor can assign

device information

issuing the following SMS:

`+3,300,phone,info,,,,,text`

`phone` phone number of the unit #
up to 20 characters
`info` optional name of the unit §
up to 14 caharacters
`text` optional description §
up to 56 characters

`#` when specified, phone number will be used to perform the real time clock auto set.
`§` name and description will be included within status SMS.

An SMS will confirm the operation.

SEND
`+3,300,+448887171,Building1,,,,,Room5`
RECEIVE
`300,Building1,**----*`

Any supervisor can

add USERS to SIM

issuing the following SMS:

`+0,,phone,name`

`phone` recognized phone number
up to 20 characters
`Name` name of user
up to 14 characters

It's better to store the phone number using international format.
An SMS will confirm the successfully storage of new user into the SIM card phonebook, at first available entry.
Up to 250 entries are available on SIM cards.

SEND
`+0,,+441234567890,Draco Malfoy`
RECEIVE
`,Draco Malfoy,*`

Any supervisor can

remove SIM USERS

issuing an SMS specifying the name:

`-0,,,name`

or specifying the phone number:

`-0,,phone`

`phone` phone number to delete
up to 20 characters
`name` name of user
to be removed
Up to 14 characters

Name must match exactly the stored one (uppercase, lowercase, spaces).
An SMS will confirm the operation.

SEND
`-0,,,Draco Malfoy`
RECEIVE
`1`

Any supervisor can

add USERS to ME

issuing the following SMS:

`+1,,,phone,name`

`phone` recognized phone number
up to 20 characters
`Name` name of user
up to 14 characters

It's better to store the phone number using international format.
An SMS will confirm the successfully storage of new user at first available entry of ME phonebook .
Up to 250 users can be stored in the internal phonebook of this unit.

SEND
`+1,,,+44987654321,Argus Filch`
RECEIVE
`4,Argus Filch,*------`

Any supervisor can

remove ME USERS

issuing an SMS specifying the name:

`-1,,,name`

or specifying the phone number:

`-1,,,phone`

`phone` phone number to delete
up to 20 characters
`name` name of user
to be removed
up to 14 characters

Name must match exactly the stored one (uppercase, lowercase, spaces).
An SMS will confirm the operation.

SEND
`-1,,,+44987654321`
RECEIVE
`4`

Any supervisor can make

manual clock setting

issuing the following SMS:

`Set=D,dd/mm/yy,HH:MM:SS`

`D`	Weekday	1 = Monday ... 7 = Sunday
`dd`	Day	1 ... 31
`mm`	Month	1 ... 12
`yy`	Year	00 = 2000 ... 99 = 2099
`HH`	Hours	00 ... 23
`MM`	Minutes	00 ... 59
`SS`	Seconds	00 ... 59

An SMS will confirm new setting.
Current time is returned issuing an SMS: `Set?`

SEND
`Set=1,23/03/09,15:30:00`
RECEIVE
`1,23/03/09,15:30:00`

SEND
`At+wrst=1,"012:00"`
RECEIVE
`OK`

Occasionally the unit can become disconnected from the network, in this circumstance the unit will need to be reset to reconnect to the network. An

Auto reset

at specified intervals could be enabled by supervisors, issuing:

`at+wrst=1,"HHH:MM"`

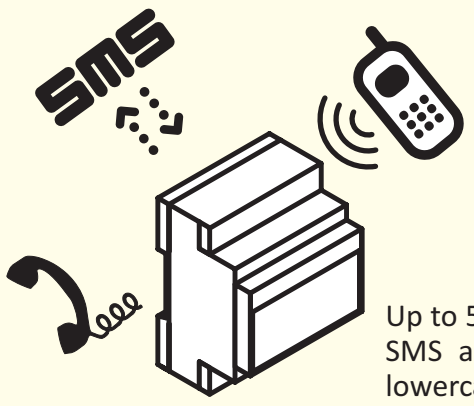
`HH`	Hours	001 ... 168
`MM`	Minutes	00 ... 59

An SMS will confirm new setting: `OK`
To disable the feature send:

`At+wrst=0`

Gsm+ Quick and Easy

CONTRIVE



GsmComfort2+

can be controlled from remote through simple free calls and by means of specific

SMS commands

Up to 5 commands can be issued within a single SMS and will be recognized both uppercase, lowercase and mixed, nested within other text, wherever placed inside the incoming message.

Remote control commands are available to registered users and some special system commands are reserved to supervisors. Users registered in both groups can issue SMS made by mixed remote and system commands.

GsmSuite

Factory defined commands, free call behaviour and times could be modified using the freeware configuration tool

SEND
D

RECEIVE
Building1
Room5

Temp: 20 C
Out : on
Reg : heat, 22 C, 5 C
Aux0: on 00:01:30
AuxI: open
Clip: toggle on
Blackout

Any user can ask for

status SMS

< issuing a command by SMS

The unit will return an SMS including:

< name of the unit
< optional description

< measured temperature
< regulator output 1 status
< temperature regulator settings §
< aux out 2 + optional remaining time
< aux in contact status
< free call mode and status
< optional power failure indication (units with backup battery only)

OUTPUT STATUS:

off	output inactive
on	output active
!on	output active and latched

INPUT STATUS:

open	input open, inactive
close	input close, active

REGULATOR STATUS:

off	regulator off
antifrost	antifrost protection active
heat	regulator on heat mode
cool	regulator on cool mode

§ setpoint and antifrost temperature are shown within regulator status line

-EEE temperature below lower limit or probe open
+EEE temperature above upper limit or probe short

temp sensor

Any user can switch

aux out ON

issuing the following SMS:

S Set aux out 2 ON

An optional time could follow:

SddHHMM out 2 ON (time)

dd	Days	00 ... 99
HH	Hours	00 ... 23
MM	Minutes	00 ... 59

Outputs won't be restored ON after a power failure.

Put a D at the end of the text for SMS confirmation or B for ringback.

EXAMPLE:
Aux out 2 on for 1 hour 30 minutes
any alien text is ignored
ringback confirmation request

SEND
S000130 nonsense text b

Any user can switch

aux out ON & latch

issuing the following SMS:

M Set aux out 2 ON

An optional expiry time could follow:

MddmmyyHHMM out 2 ON (date)

dd	Days	00 ... 99
mm	Month	01 ... 12
yy	Year	00 = 2000 ... 99 = 2099
HH	Hours	00 ... 23
MM	Minutes	00 ... 59

Outputs will be restored ON after a power failure. Commands involving real time will be discarded if the clock has not been set before.

EXAMPLE:
Out 2 on until May 4th 2010 06:30 PM

SEND
M0405101830

Any user can switch

aux output OFF

issuing the following SMS:

R Reset aux out 2 OFF

Put a D at the end of the text for SMS confirmation or B for ringback.

EXAMPLE:
Aux out 2 turned off
Status SMS confirmation request

SEND
R d

RECEIVE
Building1
Room5

Out1: off
Out2: !on
In1 : open
In2 : close
Mode: toggle on

Any supervisor can

enable or disable

free call control

issuing the following SMS:

Stop
Disable free call control feature: any incoming call will be rejected.
Status SMS will report Clip: toggle off

Start
Enable free call control feature: incoming calls from resistered users will activate outputs following the specified sequence.
Status SMS will report Clip: toggle on

EXAMPLE:
Disable free call control and issue a ringback confirmation.

SEND
Stop B

Any user can switch

regulator ON

issuing the following SMS:

on Regulator ON

An optional time could follow:

onddHHMM Regulator ON (time)

dd	Days	00 ... 99
HH	Hours	00 ... 23
MM	Minutes	00 ... 59

Regulator won't be restored ON after a power failure.

When the setpoint=0, the output will turn on regardless of measured temperature.

Put a D at the end of the text for SMS confirmation or B for ringback.

EXAMPLE:
Temperature control is activated for 4 days 1 hour, output will be controlled on/off to keep the setpoint.

SEND
On040100 B

Any user can switch

regulator ON & latch

issuing the following SMS:

run Regulator ON

An optional expiry time could follow:

runddmmyyHHMM Regulator ON

dd	Days	00 ... 99
mm	Month	01 ... 12
yy	Year	00 = 2000 ... 99 = 2099
HH	Hours	00 ... 23
MM	Minutes	00 ... 59

Regulator will be restored ON after a power failure.

When the setpoint=0, the output will turn on regardless of measured temperature.

Commands involving real time will be discarded if the clock has not been set before.

EXAMPLE:
Temperature control is activted until May 4th 2010 06:30 PM, output will be controlled to keep the setpoint.

SEND
Run0405101830

Any user can switch

regulator OFF

issuing the following SMS:

off Regulator OFF

Put a D at the end of the text for SMS confirmation or B for ringback.

EXAMPLE:
Temperature controller switched off, the unit will control the output on/off to keep the anti-frost temperature only (if any).
Status SMS confirmation request.
Within the status SMS returned all temperatures are shown:
Ambient temperature is 18°C.
Setpoint temperature is 20°C.
Antifrost temperature is 5°C.

SEND
Off D

RECEIVE
Building1
Room5

Temp: 18 C
Out : on
Reg : off, 20 C, 5 C
Aux0: off
AuxI: open
Clip: toggle on

Any supervisor can change

setpoint

issuing the following SMS:

setpoint=tt

tt	temperature	2 ... 37 °C (36 ... 99 °F)

To operate without setpoint (output will be turned on/off regardless of measured temperature) send:

setpoint=0

Temperature values are accepted in the range 0...99 and GsmComfort+ will confirm the new setpoint issuing an SMS, without any further check on legal values (2...37°C or 36...99°F).
Use GsmSuite to select °C/°F.

EXAMPLE:
Setpoint successfully set to 20°C.

SEND
Setpoint=20

RECEIVE
New temperature setpoint accepted