This unit can be installed on any standard EN-50221 rail by simple snap-in. A minimum protection degree IP40 must be guaranteed, raised to IP54 for open-air application.

**Power Supply**
- 2 x 2.5mm² (AWG14)

**Inputs and outputs**
- Terminal 1: Module switched ON
- Terminal 2: Module switched ON
- Terminal 3: Module switched ON
- Terminal 4: Module switched ON

**Networking**
- 9 pins connector: RJ45 (ethernet) compliant

**ESD Protection**
- Input and output terminals protected against ESD spikes of up to 25kV.

**Environmental specifications**
- Temperature: -40°C to 70°C (80% RH)
- Humidity: 5% to 95% non-condensing

**Safety features**
- Overcurrent and overvoltage protection
- Surge protection

**Additional notes**
- This device should be installed only by qualified personnel. Carefully read the instruction manual in its entirety and keep it safe for future reference.
- It is essential to know the information and comply with the instructions given in the manual to ensure the fitting is installed, used, serviced and repaired correctly and safely.
- This RF unit is not designed for and intended to be used in portable applications (within 20 cm or 8 inches of the body of the user) and such uses are strictly prohibited.
- This product is not authorized for use as a critical component of life-support systems or any systems or devices where malfunction could result in severe injury or death.
- In order to prevent danger to life or property, it is the responsibility of the system designer to incorporate redundant protective mechanisms appropriate to the risk involved.
- All units are 100% functionally tested. Specifications are based on characterisation of tested sample units rather than testing over temperature and voltage each unit.
- The safety use of the product is only allowed to property or persons deriving from installation, use and maintenance that have not been carried out in conformity with this instruction manual which must always accompany the fitting.

**ElectroMagnetic compatibility and Radio spectrum Matters**

**Health and safety requirements pursuant to clause 3.1a:**
- Standard EN 60601-1:2005 A11:2010
- Standard EN 60601-1-2:2006
- Standard EN 60601-1-3:2013

**Radio spectrum matters clause 3.2:**
- Standard EN 301 489-7:2010
- Standard EN 301 511:2009

Using the free software GsmSuite for PC running Microsoft Windows it's possible to manage advanced configuration, control, tracing and other features either in local or remote mode.

**All devices**
- It's possible to use GsmSuite to handle simple remote management by means of any device having SMS capabilities (a mobile phone or Internet Service). A GSM modem driven by GsmSuite can give you professional remote control.

**Configuration software GsmSuite for PC running Microsoft Windows** and technical literature are available for free download at www.gsm-control.biz.
The SIM card receptacle is intended for 32 SIM cards (GSIM 11.12 phase 2). A back-up battery will put the unit into operation. Make sure that there is no voltage applied to GsmComfort+. Disconnect also the backup battery, if any. Following the figure below:

1. Unlock the top cover using a small screwdriver.
2. Slide up the lid.
3. Insert the SIM card in the receptacle, contacts must be on the bottom side.

To remove the SIM card repeat operations 1 and 2, gently pull the SIM card out.

The SIM card pin is used for the following operations:

- To add a new SIM card
- To activate your SIM card
- To remove an already installed SIM card

Operating without SIM PIN
The simplest way is to put your SIM card into a cellular phone and program it so it won't stand by without SIM card. The SIM card is "open" and someone could steal the SIM card, use it and read the information inside it.

Enter default SIM PIN
When using a SIM card, you can enter a default PIN = 0000 (four zeroes). Put your SIM card into a cellular phone and program the PIN using the given number.

Change default SIM PIN
Using com port or GsmSuite running on Microsoft® Windows® Cy you can modify the default PIN on both GsmComfort+ and SIM card.

WARNING
If a SIM card that asks for a PIN number different from that stored into GsmComfort+, the device will not operate. If you enter the PIN times incorrectly, SIM card will lock up and you must provide the PUK (PIN Unlocking Key).

Add Users (group 0)
Remote control is allowed to registered users only. It is possible to add, modify or delete subscribers from the SIM card phonebook using any GSM mobile phone or SIM card maintenance software. The following operating instructions provided by phone manufacturer in insert into SIM card holder, turn on the phone and scroll the option menu to SIM card Phonebook. In order to add a new entry, you must provide the following information:

- Name: you can use optional name.
- Address: contact number.
- Phone number: number of SMS to be sent (up to 8 numbers).

Add / edit Supervisors (group 7)
Add / edit Users (group 0 / group 1)
To operate in pure on/off mode, without setpoint, set comfort temperature to 0. In such case the output will stay on until next off request.

Change character name: enter new setpoint temperature (supervisor command) and activate regulation (user command)

SMS delivery failure is usually less than 1%, but you must keep in mind that a message could not arrive and you cannot complain with your operator for this. GsmComfort+ deletes any pending SMS at power-on.

DEVICE INFO

To improve the readability of information sent by this device it’s possible to send some specific information: a supervisor can issue the following SMS:

+3,300,61,info,,email,text
text Device own phone number email info Short description
Default device own email address info Detailed device application info
Example: +3,300,644679,building 1,...,5 living room info and text will be shown within status SMS sent by this unit.

[1] Device phone number (always in international format) will be used to perform real time clock synch; missing this field the real time clock is unreliable and SMS commands involving date field will be rejected.

2) All email issued from Gprs type unit will be sent carbon copy also to its own mailbox if a valid address is provided.

SMS CONTROL

Any registered user can control outputs by means of SMS.

Follow default commands can be changed to any custom text using GsmSuite. More details available on "Advanced Manual".

Enable regulation to reach setpoint (if any)
run Enable regulated to reach setpoint (in heat mode)
run Enable regulated to reach setpoint (if any) until specific date
Set Aux output ON
Re-set Aux output OFF
Set Aux output ON and LATCH (set again at further power on)
Status SIM card required
Rings back on the ringback number from the SIM card phonebook.

SMS management:

To remove an already installed SIM card, you must provide the PUK (PIN Unlocking Key).

Store first supervisor
Although it is not mandatory to store a supervisor, you may add a supervisor who has additional special commands only available to him (advanced manual) to store the first supervisor, once the unit is active, the following SMS are allowed only within the email address field.

Start 

end character

Example: #0000.Harry.Potter@harry.potter纾魁worps.com* start character name = "Harry Potter" name = "Harry.H.Potter" address = "HogwartsCastle, London, UK"

Delete Phonebook entries
Remove any entry from phonebook by means of GsmSuite or issuing an SMS.

GPRS / Email settings
Email address will be used, available for GPRS devices.

FREE CLIP CONTROL

Incoming voice (or fax) calls from registered users will toggle regulation on to off or vice-versa. A ringing will be issued only when enabling the regulation.

If the user waits online, after 15 " GsmComfort+ will answer, playing a low tone when out released, or four high tones after output activation. No ringback will be issued in such case. Regulation status is recovered after blackouts.

REGULATION

The comfort setpoint can be modified by supervisors issuing the following SMS.

On: 0 = remaining time to reg off

days hours

Out status: remaining time to reg off

reg_offdate time

cooling/heat regulation setpoint

antifrost antifrost protection regulation current in active mode cool reg_offdate time

out released, inactive into reg_on_status

out active into reg_off_status

into reg_on_status

cool reg_offdate time

cool reg_on_status

cooled

cool reg_on_status

cool reg_on_status

cool reg_offdate time

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