

GSMMOD4 includes a GSM-modem and a cable which enables you to contact the modem directly to the controller or the control device.

The package includes a network device, power cable and mounting accessories for the mounting of the DIN-rail. The modem is equipped with a fixed antenna that can be replaced for a 2,5m external antenna if necessary (additional equipment).

It is possible to purchase a GSM-interface. The interface is ready for use (available only in Finland).

GSM modem technical specifications:

Electrical number:	71 655 94
Measurements:	60 x 60 x 22mm
Weight:	50g
Operating temp:	-15 ... +50°C
Storing temp:	-20 ... +65°C
Operating voltage:	5 ... 32VDC
Rated current:	650mA
Warranti:	2 year
Optional accessories:	
ANT1:	External antenna 900/1800MHz, with 2.5-meter cable.
CE-GSM10:	Antenna cable extension, 10 m

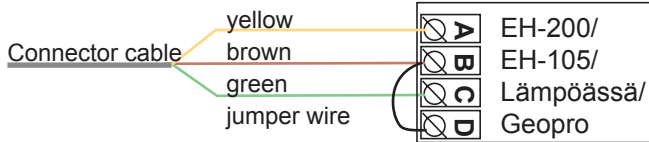
What does the LED indicate about modem status?



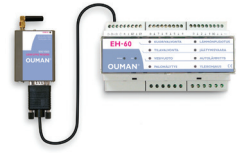
LED indicator light	Status of the modem/ Instructions
LED is not ON:	The modem is not on. Connect the modem to the network device.
LED is ON:	The power is on but the modem is not ready to use. Inspect the following: <ul style="list-style-type: none">- The regulator has the same PIN as the GSM modem's SIM card PIN code.- If the GSM modem is connected to the EH-200/ Lämpöässä/ Geopro controller, perform the start-up function.- If the GSM modem is connected to the EH-105 controller, perform modem initialization.- If the modem is connected to EH-60/EH-686, turn the power off from the device momentarily after connecting the modem.
LED blinks slowly:	The modem is ready to use.
LED blinks rapidly:	The modem sends or receives messages. If a message does not come from the controller, check the text message you have sent to see that the device ID and keyword have been written correctly. Also check that the controller has the operator's message centre number of the GSM connection you have in use.

Connecting the GSM modem to Ouman regulation and control devices

Products:
EH-200, EH-105,
Lämpöässä and
Geopro



Products:
EH-60 and EH-686



Power (5–32VDC) is supplied to the modem using either the mains adapter or the battery cable

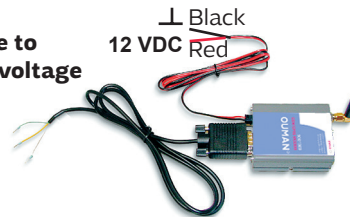
When connecting the M100 2G or EVO-model modem to a EH-200-series controller or to EH-105, EH-60, EH-60, use the blue cable.

**Power supply
230V/12VDC**



When connecting the modem to EH-net, use the cable that comes with EH-net.

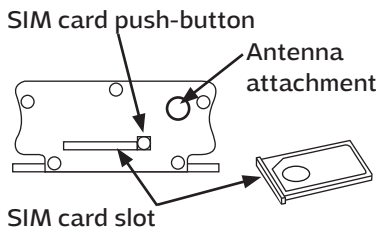
**Power supply cable to
5...32V operating voltage**



The **EH-60/EH-686** should be powered off after the modem is connected so that the device will recognize the modem.

If EH-60 or EH-686 has a battery backup, connect the operating voltage directly to the battery charger-power source, AP1. (A power supply is not needed).

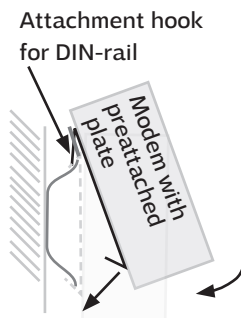
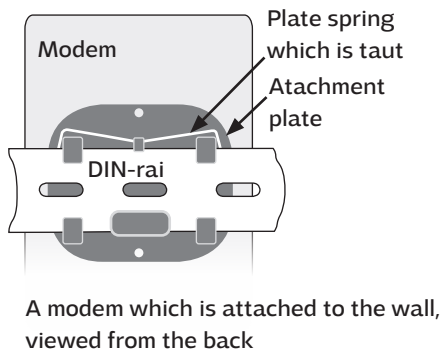
Installing SIM card



Press the small black push-button at the end of the modem and pull the SIM card slot out of the modem at the same time. Place the SIM card in the slot and push it back into place.

To be able to use the SMS-connection, the PIN code has to be installed in the controller. Note. The controller is given the same PIN as that of the SIM card. The SIM card's PIN query must be on.

Installation



Use a DIN rail to fasten the modem into place. Attach the DIN rail to the wall. The modem has a preattached plate that can be attached to the DIN rail. Place the upper edge of the plate above the upper edge of the DIN rail.

Lower the modem so that the spring on the base becomes taut against the DIN rail and the hooks on the upper edge of the plate go into place on the DIN rail.

Press the lower edge of the modem against the rail so that the hooks on the lower edge of the plate become attached to the rail.

Required settings for regulator/control device

Products:
EH-200, EH-105,
Lämpöässä and Geopro



Go to special regulator maintenance and the "Text message settings" section:

Message Centre number:

Check that the message centre number set for the regulator is +358447983500.

PIN code:

The factory default PIN code setting for the SIM card is 1234. We recommend changing the code for security reasons. First install the SIM card in a GSM phone. After changing the PIN code, transfer the SIM card to the modem. Set the same PIN code for the regulator as for the SIM card in the GSM modem.

Modem type:

On the regulator, select Nokia/Siemens as the modem type unless the selection includes Ouman/Fargo.

Perform start-up or modem initialization with the regulator so that it will begin to use the modem:

If the GSM modem is connected to an EH-200/Lämpöässä/Geopro regulator, perform the start-up function.

The start-up function is performed by going to the regulator's Start section, pressing OK and exiting the start-up mode with ESC without changing any settings.

If the GSM modem is connected to an EH-105 regulator, perform modem initialization.

Initialization is performed by going to the regulator's "modem initialization" section, pressing OK and exiting with ESC.

Message Centre number:

DNA:	+358447983500
TeliaSonera:	+358405202000
Elisa:	+358508771010
Saunalahti:	+358451100100
Tele Finland:	+358405202330

Products:
EH-60 and EH-686



Detailed instructions for commencing use of the text message connection are presented in the "GSM modem installation" and "Protection" sections of the user manual.

Message Centre number:

Change the message centre number to +358447983500. The message centre number can be changed using either the EH-686 configuration program or a text message. If you change it using a text message, send the message to the control device as follows:

```
EH01 0000 HÄL.NUMEROT: nro5: SANOMAKESKUS +358447983500
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(EH01=device code, 0000=service code. Note the spaces in the message, and that the codes for the device may have changed.)

As of version 2.4.9, the default for the EH-60 device is the DNA message centre number.

PIN code:

The PIN code for all program versions of the EH-686 is 0000. For the EH-60, the PIN code used to be 0000, but has changed to 1234 as of version 2.4.9 (sold after 1 March 2008).

The PIN code for the SIM card in the GSM modem must be the same as the device PIN code. If necessary, first change the SIM card PIN code to 0000. The PIN code can be changed by using the card in a GSM phone.

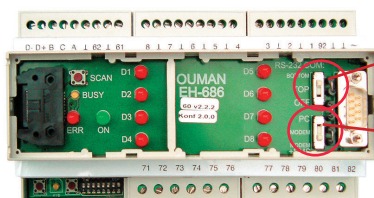
For security reasons, the PIN code should be changed after the GSM modem has been installed. This is done by sending the following text message to the EH-60/EH-686:

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EH01 0000 SUOJAUS
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The regulator will send a reply message showing the device ID, service code and PIN code. Edit the reply by replacing the old code with a new one and send it back to the control device. Then make the PIN code of the GSM modem's SIM card identical by using the SIM card in a GSM phone.

EH-60/EH-686 device switches

The factory default positions of switches on the EH-60 and EH-686 devices are correct. If the EH-686 has been configured using a PC, the switch positions may have been changed. In this case, check the switch positions:



Switch is in the BOTTOM position

Communication mode is MODEM + SMS



The enclosed marking on the additional material of the product indicates that this product must not be disposed of together with household waste at the end of its life span. The product must be processed separately from other waste to prevent damage caused by uncontrolled waste disposal to the environment and the health of fellow human beings.

The users must contact the retailer responsible for having sold the product, the supplier or a local environmental authority, who will provide additional information on safe recycling opportunities of the product. This product must not be disposed of together with other commercial waste.