Upute za postavljanje I upotrebu ENSTO ECO600 termostata

PREZENTACIJA

ECO600 kontrolna jedinica je namijenjena kontroli i nadziranju manjih prostora.
Uređaj ima GSM vezu koja omogućava prijenos alarma i komandi između uređaja i klijenta kroz sms poruke. Samo brojevi mobitela uneseni u katalog (maksimalno 5) mogu kontrolirati uređaj.

VAŽNO

Uređaj može postaviti samo kvalificirana osoba. Isključite struju prije instalacije i održavanja. Sačuvajte upute za buduće upotrebe. Radna voltaža protupožarnog alarma koji je povezan sa sustavom treba biti zaštićena i treba davati zvučni signal.

UPUTE ZA INSTALACIJU

Tehnički podaci

Četverostruka-frekvencija GSM
Antena: Eksterna, SMA-veza
Radna temperatura: -25 ... +50°C°
Skladišna temperatura: -30 ... +85°C
Radna voltaža: 12 - 24 VDC / 0.65 A
Dimenzije: 105 x 90 x 52 mm
Instalacija   on DIN-bar
Klasa zaštite   :   IP 20
Tip automatske funkcije: 1.B
Klasa zagađenja: 2
Procijenjeni prenapon: Releji: 2500V,
                        Strujni dovod: 330V
Temperatura tlačni test: 75 °C

VAŽNO!

Uređaj treba postaviti na upravljačku ploču ili u zatvoreni prostor kako bi se spriječilo dodirivanje spojeva i glava vijaka. Svi releji trebaju biti spojeni na istu fazu.

UVOD

START

1. Postavite ECO600 SIM karticu u mobilni telefon.
2. Izbrišite zahtjev za PIN pod opcije.
3. Isključite radnu voltažu iz ECO600 akumulatorske podrške (gdje je primjenjivo).
4. Stavite SIM karticu u ECO600.
5. Uključite radnu voltažu.

ECO600 kontrolna jedinica se aktivira slanjem komande ENG s mobilnog telefona. Ostale komande nisu dostupne dok početna komanda nije poslana. Ta komanda postavlja jezik na Engleski, sprema datum instalacije, omogućava kontrolu I alarme I stavlja uređaj u modul Present (uključen).

ALARMI

Svi su alarmi automatski aktivni. Ukoliko nema potrebe za spajanjem alarma u svim inputima, pojedini inputi mogu biti isključeni slanjem komande ALARM (BROJ INPUTA) D prema ECO 600 npr ALARM 5 D. Automatska granična temperature za unutrašnji alarm je 10 °C. Granica može biti promijenjena slanjem komande HEAT [ODABRANA NIŽA GRANICA), npr HEAT 5.

POSTVLJANJE SMART TEMPERATURE
Automatska Smart temperatura je 5 °C. Vrijednost se može izmijeniti komandom SETBACK [IZABRANA TEMPERATURA], npr. SETBACK 8.

CHECK
At the end of the introduction send the command STATUS to the ECO600. The reply message will tell you the mode of the device, controls and alarms.

ADDING USERS
Send the command PHONE [CATALOGUE POSITION] [TELEPHONE NUMBER] to the ECO600 e.g. PHONE 1 +358123456789 .
The added telephone numbers must be confirmed in order to be able to receive alarm messages. The number will be confirmed by sending any command e.g. PHONE to the ECO600.
The telephone numbers must be entered in international format.

COMMANDS
ENG - Selects the language to English. ENG is also the start command when the device is activated.

ALARM [INPUT NUMBER] [D/E] - Disables an input connection (D) or enables one (E). If the device gives a false alarm because of a broken alarm sensor, it is possible to disable the alarm in question by sending the command ALARM [INPUT NUMBER] D .

Numbering of the alarms:
        1 = General alarm
        2 = Humidity alarm
        3 = Burglar alarm
        4 = Fire alarm
        5 = Power cut alarm
        6 = Temperature alarm

ACK - Acknowledges all alarms and reactivates the alarms which have been emitted.

HEAT [CHOSEN ALARM LIMIT] - Changes the limit value of the room temperature alarm. E.g. HEAT 5.

CONTROL 3 [ON/OFF/DEFAULT] -Turns Control 3 on or off within the parameters ON and OFF. The DEFAULT parameter will revert Control 3 into Smart setback. E.g. CONTROL 3 ON.

CONTROL 4 [ON/OFF/DEFAULT] -Turns Control 4 on or off within the parameters ON and OFF. The DEFAULT parameter will revert Control 4 into temperature control setback. E.g. CONTROL 4 ON

PRESENT - Sets the ECO600 device into Present mode.
AWAY - Sets the ECO600 device into Away mode.

SETBACK [CHOSEN SETBACK] -Sets the chosen setback value from Control 3 to the ECO16FR thermostats. E.g. SETBACK 8.

PHONE [CATALOGUE POSITION] [TELEPHONE NUMBER] - The command is used to control the user catalogue.
Adding a number: Give two parameters, catalogue position and telephone number. The telephone number is entered in a chosen catalogue position. There are five (1-5) catalogue positions. If a new number is entered into a position which is already occupied, the new

number will replace the old one, e.g. PHONE 1 +358123456789 .
Removing a number: Give one parameter, catalogue position. The telephone number for the chosen catalogue position will be removed, e.g. PHONE 1 .
Output of user catalogue: Send the command PHONE , and the reply message will include entered telephone numbers in the user catalogue, organized in numerical order (PHONE 1, PHONE 2 etc).

RESET - Reverts the ECO600 device to factory settings. The confirmed telephone numbers will remain in the memory.

INFO - The reply message includes information on the ECO600 device.
  ECO600
  Serial nr: 001071
  Software: 1.9
  Installed: 24.08.2007
  GSM SS: -51dBm (97.5%)

STATUS - The reply message tells the mode of the premises, controls and alarms.

ARRIVING - Sets the ECO600 device into Arriving mode.

OPERATION

LED SIGNAL LIGHTS
The ECO600 front panel is equipped with two signal lights. The top signal light indicates the state of the GSM device. It fl ashes regularly at 3 second intervals when the GSM connection is active. The bottom signal light indicates that the device is connected to the power.

SMS MESSAGES
SMS messages (=text messages) are the only way to communicate with the ECO600, both control of the device and transmission of alarms are carried out by SMS messages. The ECO600 device sends a reply message to all command messages which have been sent from a confi rmed number in the user catalogue. Entering the modes Present, Away and Arriving enables control of the device. The text in the commands is case insensitive. In this manual capital letters are used to make it more legible. The brackets used in the examples should not be written in commands, the text between the brackets indicates the variable values.

ADD A NUMBER IN USER CATALOGUE
A new user is created by sending the command PHONE [CATALOGUE POSITION] [TELEPHONE NUMBER] to the ECO600 device, e.g. PHONE 1 +358123456789 .
The number must be entered in international format.

OUTPUT OF USER CATALOGUE
When the command PHONE is sent to the ECO600, the reply message includes the users' telephone numbers organised in numerical order based on their catalogue position.

REMOVING A NUMBER FROM USER CATALOGUE
A number can be removed from the user catalogue by sending the command
PHONE [CATALOGUE POSITION] .

REPLACING A NUMBER IN USER CATALOGUE
If a new number is entered in an already occupied catalogue position, the new number will replace the old one.

GUIDE FOR USER CATALOGUE
- anyone can use the ECO600 device when the user catalogue is empty

- The ECO600 can be controlled only by numbers in user catalogue when any of those numbers have been confirmed
- the added number will be confirmed by sending any command e.g. STATUS from the number in question
- if the user catalogue only consists of unconfirmed numbers it is possible to add or remove users from any telephone number
- alarm messages are sent only to the confirmed numbers
- if an added telephone number is the same one that sent the command, the number is automatically confirmed

REVERTING TO THE PREDETERMINED FACTORY SETTINGS
By sending the command RESET the following
predetermined factory settings are activated:
>The device is in Present mode
>Control 3 - Smart setback function is activated
>Smart setback temperature value into 5 °C
>Control 4 - Temperature setback function is activated
>The limit for room temperature alarm is set at +10°C

FUNCTIONS

CONTROLS
The relays can take a maximum current of 10 A (230 VAC) when the load is resistive.
NOTE! All relays must be connected to the same phase. If it is necessary to control loads which are connected to other phases auxiliary relays must be used. The relay poles are potential free.

CONTROLS

Control	Present	Away	Arriving
Control 1 - Siren	No effect	No effect	No effect
Control 2 - Away control	Off	On	No effect
Control 3 - Smart setback	Off	Smart setback	Off
Control 4 - Temperature setback	Off	On	Off

SIREN
Control 1 is intended to control the siren in case of an alarm. The relay is activated when a fi re or break-in releases an alarm. When the alarm is acknowledged the relay stops operating. If the alarm is not acknowledged within five minutes from when the last alarm was released, the relay will also stop operating.

AWAY CONTROL
Control 2 reacts to mode changes only according to the table above. The control switches the power supply from the chosen devices off when nobody is present in the premises. For example, turning the oven off in holiday homes.

SMART SETBACK
Control 3 operates the temperature setback of ECO16FR thermostats when the Away mode is activated. The value of Smart setback can be changed by sending the command SETBACK [CHOSEN TEMPERATURE SETBACK]. If the desired Smart setback of the premises is 10 °C in Away mode , the command SETBACK 10 should be sent to the ECO600. The default Smart setback value is 5 °C. If there are no ECO16FR thermostats in operation, Control 3 can be used to control other electrical devices, e.g. a car heater by sending the command CONTROL 3 [ON/OFF] .
After the manual control has been used Control 3 does not react to attempted mode changes of Present, Away or Arriving.
The function Smart setback can be reactivated by sending the command CONTROL 3 DEFAULT

to the ECO600. This will restore the default Smart setback of 5 °C. The Control 3 Smart setback can also be restored by sending the command SETBACK [CHOSEN TEMPERATURE SETBACK] .

TEMPERATURE SETBACK
Control 4 operates the temperature setback of thermostats and heaters on and off according to the table above.
If there is no need for temperature setback, Control 4 can be used to control other electrical devices e.g. outdoor lighting by sending the command CONTROL 4 [ON/OFF] .
After the manual control has been used Control 4 does not react to attempted mode changes of Present, Away or Arriving.
The function temperature setback can be activated by sending the command CONTROL 4 DEFAULT to the ECO600.

MESSAGES
At startup the device will always send the message "Device has started" to all confirmed users. In systems without a battery backup the message indicates a power cut that has been corrected. In systems with a battery backup the device will send the message "Power failure over ".

ALARMS
An alarm will be emitted when the loop in an alarm circuit opens. When an alarm is released, the device will send a message to all confirmed numbers in the user catalogue. The opening of a certain alarm circuit activates only one alarm message even if the sensor in question may react again.

Only fire and burglar alarms activate the siren.

The command ACK acknowledges all released alarms. If the alarm is not acknowledged within 15 minutes the device will send a reminder to the users. The reminder includes a list over the unacknowledged alarms. The reminder message is sent only once. After sending the command ACK the system will again be active and opening an alarm loop will release a new alarm. If the loop is opened at the same time that the alarm is acknowledged by sending the command ACK a new alarm will occur at once.

The indoor temperature alarm will be released if the room temperature drops below the value sent by the command HEAT [CHOSEN ALARM LIMIT] . The device will send a message when the temperature has risen to the set value. The room temperature alarm can not be acknowledged.

If there is a malfunction in a sensor, the alarm loop can be disabled by sending the command ALARM [INPUT NUMBER] D . Afterwards it is possible to acknowledge the alarm and the device will not send new alarms from the alarm loop in question. The alarm loop can be enabled again by sending the command ALARM [INPUT NUMBER] E .

ALARMS

ALARM	Present	Away	Arriving
Alarm 1 - General	Active	Active	Active

Alarm 2 - Humidity	**Active**	**Active**	**Active**
Alarm 3 - Burglar	**Inactive**	**Active**	**Active**
Alarm 4 - Fire	**Active**	**Active**	**Active**
Alarm 5 - Power cut	**Inactive**	**Active**	**Active**
Alarm 6 - Room temperature	**Inactive**	**Active**	**Active**
Outdoor temperature	**Inactive**	**Inactive**	**Inactive**

Only active mode will activate an alarm.

OPERATION INSTRUCTIONS

PRESENT
When you are present
send the command PRESENT
Present mode
-The room temperature, power cut and
burglar alarms are inactivated
-The away control is turned off
-The temperature setbacks are turned off

AWAY
When you are away
send the command AWAY
Away mode:
-All alarms are activated
-The away control is turned on
(e.g. closes the water valve)
-Temperature setbacks are turned on

ARRIVING
When you are arriving to the premises or
you are going to be away just for a moment
send the command ARRIVING
Arriving mode
-Temperature setbacks are turned off
-All alarms are activated
ACKNOWLEDGEMENT

SETBACK
Only for controlling ECO16FR thermostats.
Enter the chosen value of temperature
setback e.g. SETBACK 15
-Thermostat (ECO16FR) drops the set
temperature by the value chosen in the
command
-The value must be a whole number between
0 and 20
-The ECO16FR thermostats adjustment

knob "Temperature Change" must be in Smart state

ACKNOWLEDGEMENT
Acknowledge the active alarms by sending the command ACK.
General alarm
Humidity alarm
Burglar alarm
Fire alarm
Power cut alarm

STATUS
Check the status of the premises by sending the command STATUS