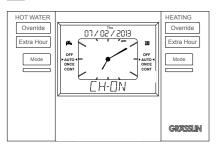
# http://waterheatertimer.org/Intermatic-timers-and-manuals.html

# **GRÄSSLIN**

QEG-2 QEG-2S

EN Operating Manual



### Grässlin GmbH

Bundesstraße 36 D-78112 St. Georgen Germany

Phone: +49 7724 933-0 Fax: +49 7724 933-240

www.graesslin.de info@graesslin.de

> More information on our web page: http://qeg.graesslin.de/qrcode/im/qeg2/







# Danger! Risk of electric shock!

▷ Installation must be carried out by a professional electrician!

- To avoid injuries, the device must be installed by a skilled electrician only!
- Before changing the battery, the device must be disconnected. from the power supply!
- Please observe the national regulations and safety instructions Interferences and changes to the device will invalidate the warranty and guarantee rights.
- . Maximum diameter of the conductors lines for the terminals: 2 x 2.5 mm

Read and observe these instructions to guarantee a perfect function of the device and a safe operation



## Information about the device

# What is a programmer?

..an Explanation for Householders (as recommended by the Energy Savings Trust)

Programmers allow you to set 'ON' and 'OFF' time periods. Some models switch the central heating and domestic hot water on and off at the same time, while others allow the domestic hot water and heating to come on and go off at different times.

Set the 'ON' and 'OFF' time periods to suit your own lifestyle. On some programmers you must also set whether you want the heating and hot water to run continuously, run under the chosen 'ON' and 'OFF' heating periods, or be permanently off.

1) Function not available for all products.

The time on the programmer must be correct. Some types have to be adjusted in spring and autumn at the changes between Greenwich Mean Time and British Summer Time

You may be able to temporarily adjust the heating programme, for example, 'Override', 'Advance', or 'Boost'. These are explained in the manufacturer's instructions.

The heating will not work if the room thermostat has switched the heating off. And, if you have a hot-water cylinder, the water heating will not work if the cylinder thermostat detects that the hot water has reached the correct temperature.

### Description of the device

Your two channel programmer provides timing control for your central heating and domestic hot water, letting you set ON and OFF periods to suit vour own lifestyle.

- Backlit LCD Display
- Real Time Clock
- Up to 3 ON/OFF per day
- Automatic summertime / wintertime changeover Daily, weekly <sup>1)</sup> and week-weekend <sup>1)</sup> programming possibility
- Different running modes: OFF, AUTO, ONCE, CONTINUOUS and HOLIDAYS 1)
- Manual override function
- · Manual extra hour function
- 3 different pre-programmed profiles, customizable by user
- Boiler service interval indication & actions 1

## Designated use

- The programmer is used to control central heating zone systems or combi boilers and domestic hot water systems ("fully pumped" or "gravity-fed").
- Suitable for use in dry rooms only!
- . Do not install in the vicinity of devices which generate inductive discharges (motors, transformers, etc.)

95 x 148 x 36

< 3 W

230 V AC / 50-60 Hz

### Technical data

Dimensions H x W x D (mm) Weight a (approx.) Power supply Power consumption Power reserve Switching capacity

Time display Time setting resolution

- Time of day - Programmes / min. switching 1 min.

Programmes

Operating temperature range Ambient temperature Humidity range Accuracy Terminal capacity Protection type

European standards

3 A 250 V  $\sim$  inductive,  $\cos \phi = 0.6$ 24 h or 12 h AM/PM format 1 min. Selectable (daily, weekly, or week-weekend)

3 A 250 V  $\sim$  resistive, cos  $\phi = 1$ 

Number of switchings per day 3 ON/OFF pairs (2 ON/OFF pairs selectable)

0°C ... + 45°C -20°C ... + 55°C 10 to 90% RH, non condensing Type ± 1 sec./day at +20°C 2 x 2.5 mm<sup>2</sup> EN60730-2-7 Compliant with building regulations

(Part L UK) (Part J Scotland)

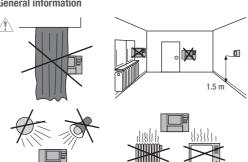
# Installation and mounting



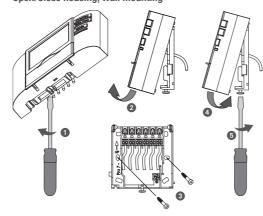
# Danger! Risk of electric shock!

▷ Installation must be carried out by a professional electrician!

# General information



#### Open/Close housing, Wall mounting



Commissioning

PROG TYPE

MONTH

YEAR

HOUR

MINUTE

DONE

Connect the programmer to power.

Product name and version number are displayed briefly.

The preset PROGRAMMING TYPE and OK are flashing.

Depending on the product you can choose between three different

Week-Weekend 1) You can program Monday - Friday with a ON/

a different one.

WEEK-WEEKEND 1), - or +, and confirm with OK. Preset value **DATE** is flashing.

Enter day,  $\Box$  or  $\boxdot$ , and confirm with  $\boxdot$ 

Enter month,  $\Box$  or oxdot, and confirm with  $\overline{\square}$ 

Preset value MONTH is flashing.

Preset value YEAR is flashing.

Enter year,  $\square$  or  $\square$ , and confirm with  $\square$ .

Preset **TIME** is flashing.

Enter hour. 
or 
and confirm with

Preset value MINUTE is flashing.

The date and time are saved.

Set date and time

logy

-+

MONTH

4588

HOUR

MINUTE

DONE

Select indicator lamp DAY/TIME is ON.

Enter day, 
or 
number and confirm with or

Preset value MONTH is flashing.

Enter year, - or +, and confirm with ox

Enter hour,  $\square$  or  $\square$ , and confirm with  $\square$ .

Enter minute. - or + and confirm with ok.

Press the **SELECT** • until indicator lamp **RUN** is ON.

Preset value MINUTE is flashing.

The date and time are saved.

Preset value YEAR is flashing.

Preset **TIME** is displayed.

Enter month,  $\Box$  or  $\boxdot$ , and confirm with  $\boxdot$ .

Press the **SELECT** until menu **DAY/TIME** is selected.

Enter minute. 
or 
and confirm with 
ok.

The programmer goes to RUN mode

If you wish to change the date or time, follow the instructions below:

DAY/ DHW CH RUN

Choose your desired programming type (DAILY, WEEKLY 1),

All days (Monday - Sunday) are programmed

You can program each day (Monday, Tuesday,

OFF time schedule and Saturday - Sunday with

...) with a different ON/OFF time schedule

with the same ON/OFF time schedule

settings: Daily. Weekly 1) or Week-Weekend 1).

1084

= +

When first using the timer, you have to set programming type,

ОК

OK

Wiring diagram 230 V / 50-60 Hz

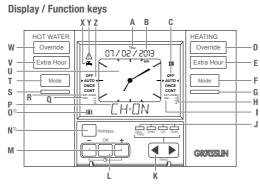


## Quick-start guide - 3 clicks to total control

- Press **OK** three times
- The default Standard in-built programme runs
- You can control the QEG with the Override, Extra Hour or Mode

Please read the full instructions if you want to know more.

## Operation and configuratio

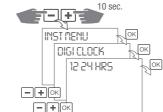


- Day of the week indicator Current day, month, year
- Central heating operating mode indicator
- Central heating override Central heating extra hour
- Central heating operating
- Central heating indicator lamp **U** Central heating extra hour
- indication Central heating program
- period indication Select indicator lamps
- OK button

mode button

N 1) Holiday button

- Information text line Domestic hot water programming period indication Domestic hot water extra
- hour indication Domestic hot water indicator
- Domestic hot water operating mode button Analog clock / current time
- hour button Domestic hot water override
- hutton Domestic hot water icon
- "-" and "+" button mode indication
- Domestic hot water extra
- Warning icon Domestic hot water operating
- Change AM/PM time display to 24 hour clock Your programmer can operate on the 12 hour AM/PM or 24 hour clock
- If you wish to change the clock format, follow the instructions below



#### Make sure the device is working in RUN mode

- Press and hold =  $\pm$  buttons at the same time for 10 seconds. INST MENU opens and OK is flashing.
- Confirm with OK
- The menu item DIGI CLOCK is displayed.
- Press ok to edit settings.
- Setting NO is flashing
- Press or + to scroll through the menu. Choose YES and confirm with 3 Setting AM PM is flashing.
- Press or + to scroll through the menu. Choose AM PM or 24 HRS and confirm with OK.
- The chosen setting is saved
- The next menu item BACKLIGHT is displayed.
- 7. To save your settings, continue scrolling through the menu options with ± key, until you once again see INST MENU / - 0K +, and finally leave the installers menu with  $\pm$  key. With QEG-2S, continue scrolling through the menu options with

± key, until you see CHANGE PIN / – OK +, and finally leave the installers menu with ± kev.

# Running a built-in programme (default programmes)

With the date and time correct, your timer will now be operating to the built-in programmes. These have been designed to provide heating at typical times throughout the day. The built-in programmes give you a starting point that you can

personalise to your own requirements, please see the section "Review/ Edit central heating program" or "Review/Edit domestic hot water program"

#### Built-in programme STD (DEFAULT) ON1: 06:30 am ON2: 12:00 pm\* ON3: 04:30 pm

Weekly 1)	ON1: 06:30 am	ON2: 12:00 pm	ON3: 04:30 pm	
	0FF1: 08:30 am	0FF2: 01:00 pm	0FF3: 10:30 pm	
Week-	ON1: 06:30 am	ONO. 10.00 nm	ON3: 04:30 pm	Mo - Fr
		ON2: 12:00 pm		IVIO - FI
Weekend 1)	0FF1: 08:30 am	OFF2: 01:00 pm	OFF3: 10:30 pm	
	ON1: 06:30 am	ON2: 12:00 pm	ON3: 04:00 pm	Sa - Su
	0FF1: 09:30 am	OFF2: 01:00 pm	OFF3: 10:30 pm	
Built-in pro	gramme <b>HOME</b>			
	•	010 10 00+	ONO 04 00	
Daily	ON1: 06:30 am	ON2: 12:00 pm*	ON3: 04:00 pm	

#### 0FF1: 09:30 am 0FF2: 12:00 pm\* 0FF3: 11:00 pm ON1: 06:30 am ON2: 12:00 pm

ON1: 06:30 am

ON3: 04:00 pm 0FF1: 09:30 am OFF3: 11:00 pm ON1: 06:30 am ON2: 12:00 pm 0N3: 04:30 pm Mo - Fr OFF1: 09:30 am OFF2: 01:00 pm OFF3: 11:00 pm

ON2: 12:00 pm

0N3: 04:00 pm Sa - Su

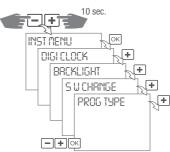
OFF3: 11:00 pm

# OFF1: 09:30 am OFF2: 01:00 pm

Daily	ogramme <b>ECO</b> 0N1: 06:30 am	ON2: 12:00 pm*	ON3: 05:30 pm	
Dully	0FF1: 07:30 am	0FF2: 12:00 pm*	0FF3: 10:00 pm	
Weekly 1)	ON1: 08:30 am	ON2: 12:00 pm	ON3: 05:30 pm	
	0FF1: 09:30 am	0FF2: 01:00 pm	0FF3: 10:00 pm	
Week-	ON1: 06:30 am	ON2: 12:00 pm	ON3: 05:30 pm	Mo - I
Weekend 1)	OFF1: 07:30 am	OFF2: 12:00 pm	OFF3: 10:00 pm	
	ON1: 08:30 am	ON2: 12:00 pm	ON3: 05:30 pm	Sa - S
	0FF1: 09:30 am	OFF2: 01:00 pm	OFF3: 10:30 pm	

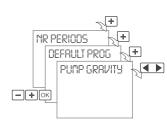
\* On/off prgrammes with the same time cancel out - no switching will occur.

The built-in programmes can be selected in the INSTALLERS MENU. To access to installers menu, the device must be working in RUN mode.



- Make sure the device is working in RUN mode.
- Press and hold 

  buttons at the same time for 10 seconds INST MENU opens and OK is flashing.
- Confirm with ox. Installers menu is activated
- Press 3 x ± until **PROG TYPE** is displayed.
- Press ok to edit settings. Preset value is flashing
- 6. Press  $\equiv$  or  $\pm$  to scroll through the menu. Choose your desired setting (DAILY WEEKLY 1) 5-2 DAYS 1) and confirm with OK
- The chosen setting is saved. The next menu item NR PERIODS is displayed.



- Press + to go to **DEFAULT PROG**.
- Press on to edit settings.

  Preset value is flashing.
- Press or + to scroll through the menu. Choose your desired setting (STD, HOME or ECO) and confirm with OK.
- The chosen setting is saved The next menu item **PUMP GRAVITY** is displayed.
- To save your settings, continue scrolling through the menu options with  $\pm$  key, until you once again see INST MENU / - 0K +, and finally leave the installers menu with  $\pm$  key.

With OFG-2S, continue scrolling through the menu options with ± key, until you see **CHANGE PIN / – OK +**, and finally leave the installers menu with ± key.

# Domestic hot water systems

- "fully pumped system" or "gravity-fed system

Fully pumped (PUMPED)

Domestic Hot Water move all the heat from the boiler to every part of the system is "fully pumped". As a rule one pump is used to circulate the water through valves which divert the flow to the relevant part of the system (Central heating or Domestic Hot water). In this type of systems both channels of the programmer can work

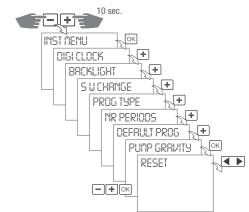
In gravity fed hot water systems, whenever

The term for any boiler that uses a pump to

Gravity-fed Domestic Hot Water the boiler comes on to service heating, there (GRAVITY)

will inevitably be some circulation through the hot water storage tank, which will then heat up. Then there is no possibility to have independent programs for heating and hot

You can choose the desired system in the INSTALLERS MENU. To access to installers menu, the device must be working in RUN



- Make sure the device is working in RUN mode.
- Press and hold + buttons at the same time for 10 seconds. INST MENU opens and OK is flashing.
- Confirm with OK. Installers menu is activated
- Press 6 x + until PUMP GRAVITY is displayed.
- Press ok to edit settings.
- Press or + to scroll through the menu. Choose your desired setting (PUMPED OR GRAVITY) and confirm with OK.
- The chosen setting is saved.

the installers menu with ± kev.

The next menu item RESET is displayed. 7. To save your settings, continue scrolling through the menu options with  $\boxdot$  key, until you once again see **INST MENU / – OK +**, and finally leave the installers menu with  $\boxdot$  key. With QEG-2S, continue scrolling through the menu options with ± key, until you see CHANGE PIN / - OK +, and finally leave

80.10.1352.7\_manual\_QEG2\_QEG2S\_FERTIG\_V02.indd 1 24.04.2013 11:36:47 Review/Edit central heating (CH) program

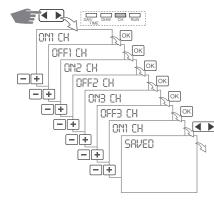
Depending on the product you can choose between three different settings: Daily, Weekly 1) or Week-Weekend (5-2 days) 1)

Daily All days (Monday - Sunday) are programmed with the same ON/OFF time schedule Weekly You can program each day (Monday, Tuesday, ...) with a different ON/OFF time schedule You can program Monday - Friday with a ON/ Week-Weekend

OFF time schedule and Saturday - Sunday with a different one.

You can choose the desired setting in the INSTALLERS MENU. Every programme has three pairs of ON/OFF switching times per day. Each time can be set between 3.00 am and 2.50 am (on the next day).

Example 1: Daily programming CH, built-in programme STD



1. Press the **SELECT** until indicator lamp **CH** is ON. Preset value ON1 (06:30) is flashing.

- If you make any changes, you must press OK to confirm ALL ON/OFF pairs before pressing the select button to return to the RUN mode, otherwise your changes will be lost.
- Press 

  or 

  briefly to increase/decrease the time in 1 minute steps. Press and hold - or + longer than 2 seconds to increase/ decrease the time quickly.

Or press OK to confirm a displayed (flashing) value

- 2. Enter hour and minute for the new **ON1** command, or +, and confirm with 🔍.
- Preset value 0FF1 (08:30) is flashing.
- Enter hour and minute for the new **OFF1** command,  $\square$  or  $\square$ , and confirm with 🖳
- Preset value ON2 (12:00) is flashing.
- Enter hour and minute for the new **ON2** command,  $\square$  or  $\square$ , and confirm with OK. Preset value OFF2 (12:00) is flashing.
- Enter hour and minute for the new OFF2 command, or +, and confirm with OK.
- > Preset value ON3 (16:30) is flashing.
- Enter hour and minute for the new **ON3** command,  $\square$  or  $\square$ , and confirm with  $\[ \]$  .
- Preset value 0FF3 (22:30) is flashing.
- Enter hour and minute for the new **OFF3** command,  $\square$  or  $\square$ , and confirm with ok.
- Set value ON1 is flashing.

Day MON is flashing.

8. Press the **SELECT** • until indicator lamp **RUN** is ON.

Example 2: Weekly programming CH, built-in programme STD 1. Press the **SELECT** • until indicator lamp **CH** is ON.

You have the possibility to edit each day individually or you can create dayblocks, e.g. Tue, Wed, Fri and Sat, where you can set

the same ON and OFF sequence. Days you do not select will keep the preset values.

2. Select the first desired day, - or +, and confirm with ox. The menu item ADD DAY is displayed.

# ADD DAY: **YES**

- ► Choose **YES**, ☐ or ☐, if you want to create a dayblock and confirm with ☑.
- and confirm with ox
- The menu item ADD DAY is displayed
- Repeat this process until the desired days have been selected. On the last day selected, choose NO for ADD DAYS and confirm
- The selected days are shown in the display.
- The preset time ON1 (06:30) is blinking.

1) Function not available for all products.

#### ADD DAY: NO

► Choose **NO**, ☐ or ₺, if you want to edit each day individually The preset time **ON1** (06:30) is blinking.

- If you make any changes, you must press OK to confirm ALL ON/OFF pairs before pressing the select button to return to the RUN mode, otherwise your changes will be lost.
  - Press and hold or + longer than 2 seconds to increase/

decrease the time quickly.

Or press OK to confirm a displayed (flashing) value

- Enter hour and minute for the new **ON1** command,  $\Box$  or  $\dot{\pm}$ , and confirm with OK.
- Preset value OFF1 (08:30) is flashing.
- Enter hour and minute for the new **OFF1** command, or +, and confirm with or.
- Preset value ON2 (12:00) is flashing.
- Enter hour and minute for the new **ON2** command,  $\Box$  or  $\boxdot$ , and confirm with OK
- Preset value 0FF2 (13:00) is flashing. Enter hour and minute for the new **OFF2** command, ☐ or ±, and
- Preset value ON3 (16:30) is flashing. Enter hour and minute for the new **ON3** command,  $\square$  or  $\square$ , and
- confirm with OK Preset value OFF3 (22:30) is flashing
- Enter hour and minute for the new **OFF3** command,  $\Box$  or  $\boxdot$ , and confirm with OK.
- The time is saved.

confirm with OK

The menu item **SELECT DAY** is displayed.

You can select and edit a new day, ☐ or ±, or press the **SELECT** until programming menu **RUN** is selected to exit.

## Review/Edit domestic hot water (DHW) program

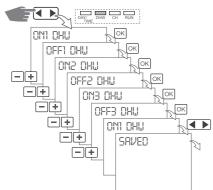
Depending on the product you can choose between three different settings: Daily, Weekly 1) or Week-Weekend (5-2 days) 1).

All days (Monday - Sunday) are programmed with the same ON/OFF time schedule You can program each day (Monday, Tuesday, ...) Weekly

with a different ON/OFF time schedule You can program Monday - Friday with a ON/ Week-Weekend 1 OFF time schedule and Saturday - Sunday with a different one.

You can choose the desired setting in the INSTALLERS MENU. Every programme has three pairs of ON/OFF switching times per day. Each time can be set between 3.00 am and 2.50 am (on the next day). To review or edit your doemstic hot water programme, press the **SELECT** • until menu **DHW** is selected.

Example: Daily programming DHW, built-in programme STD



- Press the **SELECT** until indicator lamp **DHW** is ON.
- Preset value ON1 (06:30) is flashing
- Enter hour and minute for the new **ON1** command, ☐ or ±, and confirm with OK.
- Preset value OFF1 (08:30) is flashing. Enter hour and minute for the new **OFF1** command,  $\sqsubseteq$  or  $\boxdot$ , and
- confirm with OK Preset value ON2 (12:00) is flashing.
- Enter hour and minute for the new **ON2** command,  $\overline{\phantom{a}}$  or  $\overline{\phantom{a}}$ , and confirm with OK
- Preset value 0FF2 (12:00) is flashing. Enter hour and minute for the new **OFF2** command, ☐ or ±, and
- confirm with OK. Preset value ON3 (16:30) is flashing.
- Enter hour and minute for the new **ON3** command,  $\Box$  or  $\boxdot$ , and
- confirm with OK.
- Preset value OFF3 (22:30) is flashing Enter hour and minute for the new **OFF3** command,  $\sqsubseteq$  or  $\boxdot$ , and confirm with OK.
- Set value ON1 is flashing.
- Press the SELECT I until indicator lamp RUN is ON.
- The program is saved.
- The settings for a weekly programming DHW is done in the same way as the weekly programming for central heating (CH), see example "Weekly programming CH" on the left side.

#### Operating modes

The operating mode may only be changed when **RUN** mode is activated (green indicator lamp RUN must be ON).

The system will remains OFF.

The system will be switched ON and OFF according to **AUTO** the adjusted program.

The heating will come ON at the first programmed ON ONCE time, and go OFF at the last programmed OFF time. CONTINUOUS The system will remain ON continuously.

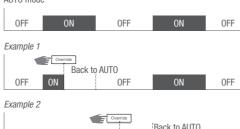
# **OVERRIDE** mode

The Override function (temporary program override) allows the user to finish the current running program prematurely or start a program to run before its scheduled start. This depends on the current channel status. The Override function applies only to the current program and remains active until the next program change. After that, the programmer returns to AUTO mode.

The Override function is only available when the device is running in AUTO and ONCE operating mode.

1 x Enable OVERRIDE 2 x Disable OVERRIDE

AUTO mode

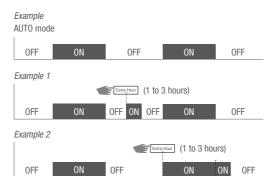


Extra hour mode

The extra hour button allows you to switch the system ON for up to 3 extra hours without altering the program.

0FF

- When the blue central heating indicator lamp is OFF, pressing an EXTRA HOUR button switches the heating ON for just one hour.
- When the blue central heating indicator lamp is ON, pressing an EXTRA HOUR button extends the programmed ON period by one
- Further presses of the EXTRA HOUR button will increase the extra hour period by one hour for each button press, up to a maximum of 3 hours.
- To cancel the extra hours, just keep pressing the EXTRA HOUR button until the message EXT HOUR disappears from the display. The system returns to previous status.



# Holiday mode

The Holiday function allows you to switch OFF your heating system for a specified number of days (from 1-90 days). This lets you save energy and related costs when you are away from home, but resumes norma operation on the day of your return.

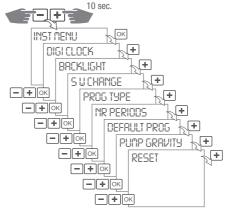


- Make sure the device is working in RUN mode.
- Press the HOLIDAY button.
- Select desired numbers of days or + and confirm with or Holiday mode is activated
- To cancel the Holiday function, just press the **HOLIDAY** button again. If you use the holiday function during winter you should ensure that you have a secondary frost protection device in your system to prevent frost damage.

#### Installers menu

The programmer has a special installers menu where some features can be adjusted to suit your lifestyle or preferences. To access to installers menu (INST MENU) the device must be working in RUN mode (green indicator lamp RUN must be ON).

If you wish to change the settings in the installers menu, follow the instructions below:



- Make sure the device is working in RUN mode.
- Press and hold 🖃 🛨 buttons at the same time for 10 seconds. INST MENU opens and OK is flashing.
- Confirm with OK.
- Installers menu is activated, you can change the settings
- ▶ Press on to edit/confirm settings and or to select settings.
- ► To save your settings, continue scrolling through the menu options with ★ key, until you once again see INST MENU / OK +, and finally leave the installers menu with ± key

With QEG-2S, continue scrolling through the menu options with ± key, until you see **CHANGE PIN / – OK +**, and finally leave the installers menu with ± key.

The following settings are possible:

Digital clock Shows the current time (hours/minutes) in a digital (DIGLCLOCK) and analog clock format

12 HRS (AM-PM) or 24 HRS format.

Setting possibilities: NO: Digital clock not shown (Default value). YES: Digital clock shown. If digital clock is set YES, you can choose between

Backlight

Setting possibilities: PERMANENT ON: Backlight always ON (Default

PERMANENT OFF: Backlight always OFF BUTTON PRESSED: Backlight ON when any pushbutton is pressed. Backlight goes OFF 20 seconds after the last pushbutton press.

Auto Summer/ Wintertime (S W CHANGE)

(BACKLIGHT)

Automatic Summer/Winter time change. Summer time starts on the last Sunday of March (1:00 am to 2:00 am) and ends on last Sunday of October (2:00am to 1:00am), then Winter time starts Setting possibilities: ON: S/W time change will be done automatically

(Default value) **OFF**: S/W time change must be done manually.

Programming type Menu to select daily, week-weekend11, weekly11 programming. This value will be applied to both central heating and domestic hot water programming

> Setting possibilities: Daily: All days (Monday - Sunday) are programmed with the

same ON/OFF time schedule Weekly 1) You can program each day (Monday, Tuesday, ...) with a different ON/OFF time schedule

Week-Weekend 1) You can program Monday - Friday with a ON/OFF time schedule and Saturday - Sunday with a different

Number of Number of adjustable time periods defined by ON-OFF pairs to control central heating or domestic periods (NR PERIODS) hot water. Setting possibilities

periods.

**3 ON-OFF:** adjust maximum 3 ON-OFF time periods (Default value). 2 ON-OFF: adjust maximum of 2 ON-OFF time

Default

Time programme that will appear by default when running in AUTO mode or as base point to customize (DEFAULT PROG) according to users' lifestyle

Setting possibilities:

STD: Standard Profile (Default value)

HOME: Home Profile ECO: FCO Profile

Detailed explanation of the profiles see chapter

Fully pumped systems (PUMPED)

"Running a built-in programme

(Default value) Central heating (CH) and domestic hot water (DHW) channels run independently Gravity systems (GRAVITY)

Domestic hot water (DHW) is ON every time that Central heating (CH) is ON.

Reset all parameters of installation menu to factory (RESET) default

#### Service menu

Fully pumped/

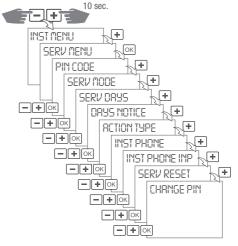
gravity systems

(PUMP GRAVITY)

This mode is a countdown of the operating running time. Service period time, action and message shown will be set into service menu (for service variants only).

To access to service menu (SERV MENU) the device must be working in **RUN** mode (green indicator lamp RUN must be ON). Service mode is PIN code protected. The preset value is **1234**. You can change the PIN code in the installers men

If you wish to change the settings in the service menu, follow the



- Make sure the device is working in RUN mode. 2. Press and hold + buttons at the same time for 10 seconds
- INST MENU opens and OK is flashing. Press D button.
- Service menu (SERV MENU) is selected.
- OK is flashing.
- 4. Confirm with OK
- First number of **PIN CODE** is flashing. Enter first number of PIN code. or + and confirm with ox Second number of PIN CODE is flashing.
- Enter second number of PIN code,  $\subseteq$  or  $\boxdot$ , and confirm with  $\boxdot$ .  $\triangleright$  Third number of PIN CODE is flashing.
- Enter third number of PIN code, 
  or 
  n, and confirm with or. Fourth number of PIN CODE is flashing.
- Enter fourth number of PIN code,  $\Box$  or  $\dot{\pm}$ , and confirm with  $\odot$ k. If PIN code is correct, service menu is activated, you can change the settings.
- ▶ Press ⋈ to edit/confirm settings and ☐ or 🛨 to select settings.
- To save your settings, continue scrolling through the menu options with  $\boxdot$  key, until you see **CHANGE PIN / 0K +**, and finally leave the service menu with  $\boxdot$  key. To cancel service menu, press 

  button

The following settings are possible:

Service mode NO: Functionality is disabled (Default value) (SERV MODE) YES: Functionality is enabled.

(DAYS NOTICE) screen. Adjustable from 0 to 30 days.

(SERV DAYS)

Service days

Days notice

You can set the number of days (1 to 400) after which a service message is to appear. It will be shown on the display as soon as the counter has reached the number of days set by you.

Number of days to "show" service message on

(ACTION TYPE)

TIMED: After service days due, heating system will be OFF, with possibility to switch ON manually the channels in 1 hour time fractions by pressing Extra hour button, up to 3 hours (maximum nr. of times Timed Boost) (Default value)

REMIND: After service days due, system will remind by a message to call installer for revision and system restart.

TOTAL OFF: After service days due, heating system will be off until installer restarts the device (all push buttons and running modes will be disabled)

Timed boost

(INST PHONE)

Available only if action type is set as TIMED. (TIMED BOOST) It gives the possibility to run manually for an undefined time (in 1 hour fraction times) or during a maximum number of times. Setting possibilities:

NO LIMIT (Default value) SELECTABLE, 1 to 99 times.

YES: Show Phone Nr.

Phone number Show/Hide Installer's phone nr. on screen, after service due day. Setting possibilities: NO: Hide phone Nr. (Default value)

When entering your own 'phone number in the Service Mode, the number will appear in the smaller line of text above the

Initially, there is an underscore  $\underline{\text{cursor}}$  visible in the top left area above the clock display. Press the - or + buttons to scroll through numbers and text (full Alpha-numeric range), once you have selected the character you require, press  $\mathbf{OK}$ , the cursor will move to the next character space. There is capacity to ente 13 characters.

Installer's phone Menu reserved to introduce installer's own phone number nr. (max. 12 digits)

(INST PHONE Setting possibilities EMPTY (Default value)

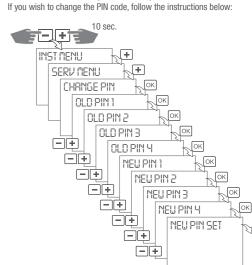
Inserted **PHONE NUMBER**, if installers place any phone number.

Service reset

(SERV RESET) default

PIN code 1 Service mode is PIN code protected. The preset value is **1234**.

Reset all parameters of service menu to factory



- Make sure the device is working in RUN mode. Press and hold  $= \pm$  buttons at the same time for 10 seconds.
- INST MENU opens and OK is flashing. 3 Press 2 x + until CHANGE PIN is displayed
- OK is flashing. 4. Confirm with ○K.

  ▷ First number of **OLD PIN CODE** is flashing.
- Enter old PIN code.
- Press or to set a numeric value.

  Press to set the next number. ▷ If old PIN code was correct, first number of NEW PIN CODE
- is flashing.
- Enter new PIN code.
  Press or to set a numeric value.
  Press to set the next number.
  - New PIN code is saved.



Disposal / Recycling

Dispose of the packing material correctly according to legal requirements and regulations.

Observe the following notes for disposing of defective system components or the system after its service life: · Dispose of appropriately, i.e. separating the parts to be disposed

- of according to material groups. Do not throw electrical and electronic components in the bin.
- Bring these parts to the recycling centers.

  Always ensure the environmentally sound disposal conform to the state-of-the-art environment protection, recycling and disposal

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