Instructions and Warnings

E8 Thermo Controller (TGC)

For use with the
ARES 200 Tec - ARES 900 Tec

Floor standing, high output, modular condensing boilers

Leave these instructions with the Building Manager
**GENERAL INFORMATION**

**INDEX**

1 General information ...........................................2
1.1 Symbols used in the manual .................................2
1.2 Compliant use of the appliance ..........................2
1.3 Information to be provided to the user ..................2
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1.2 COMPLIANT USE OF THE APPLIANCE

The appliance was built based to current standards in place.

Nevertheless, following improper use the safety and life of the user or other people may be exposed to danger, i.e. damage to the appliance or other objects.

The appliance is designed for operation in hot water circulating heating systems.

Any other use is considered unsuitable.

The manufacturer will not be held liable for any damage resulting from improper use.

Any use in accordance with the envisioned purposes includes the strict observance of the instructions in this manual.

1.3 INFORMATION TO BE PROVIDED TO THE USER

The user must be instructed in the use and operation of the heating system, in particular:

- Hand these instructions to the user, as well as the other documents relative to the appliance contained in the packaging in an envelope. **The user must keep this documentation safe so that it is available for future consultation.**
- Inform the user of the importance of ventilation and the flue/condensate system, highlighting how essential they are and how it is strictly forbidden to change them.
- Inform the user on how to control the water pressure in the system as well as the operations required to restore it.
- Inform the user on how to correctly regulate the temperature, control units/thermostats and radiators in order to save energy.
- If the appliance is sold or transferred to another owner or if the owner moves, leaving the appliance behind, always ensure the manual accompanies the appliance so that it may be consulted by the new owner and/or installer.
- It is recommended that servicing is carried out on an annual basis by a Gas Safe registered engineer.

The manufacturer will not be held liable in the case of damage to people, animals or property due to the failure to observe the instructions contained in this manual.
1.4 SAFETY WARNINGS

ATTENTION!
Installation, adjustment and maintenance of the appliance must be carried out by a Gas Safe registered engineer.

DANGER!
Maintenance or repair work on the boiler must be carried out by a Gas Safe registered engineer, it is advisable to have an annual maintenance contract.
Poor or irregular maintenance can compromise the operational safety of the appliance and cause damage to people, animals and property for which the manufacturer will not be held liable.

Changes to parts connected to the appliance
Do not make changes to the following elements:
• To the boiler.
• To the gas, air, water and power supply lines.
• To the flue pipe, safety valve and condensate pipe.
• To the constructive elements that affect the operational safety of the appliance.

Smell of gas
In case of the smell of gas observe the following safety instructions:
• Do not smoke or strike matches.
• Do not turn electrical switches on or off.
• Do turn off the gas supply immediately.
• Do extinguish all sources of ignition.
• Do ventilate the room where the gas leak occurred.
• Do contact the National Gas Emergency Service on 0800 111 999.

Explosive and easily flammable substances
Do not use or deposit explosive or easily flammable materials (i.e. petrol, paints, paper, wood) in the room where the appliance is installed.
2 INSTRUCTIONS FOR USE

2.1 DESCRIPTION OF E8 THERMO CONTROLLER (TGC) BOILER MANAGER FIELDS AND LEVELS.

For more information refer to the 'Instructions for use' supplied with the E8 Thermo Controller.

FIELDS.

General
Summary of a value selection
Controls test..........................for the technician on duty
Date/Time/Holidays.............for the user

Display
Display of system values (for example sensor values and nominal values). It is not possible to make any changes here.

User
Summary of the setting values, which can be set by the user.

Time program
Summary of timed programmes for the heating circuits, the domestic hot water circuit and supplementary functions.

Expert
Summary of values that require specific notions (installer) in order to be set.
Levels accessed by technicians are protected by code numbers (damage or malfunctions must not be excluded).

LEVELS.

The regulation values in the various fields are selected in control levels:
- SETUP
- HOT WATER
- HTG CIRCUIT I
- HTG CIRCUIT II
- SOLAR / MF

Setup
All of the display and setting values, that refer to the boiler or the entire system, i.e. that cannot be assigned to any circuit.

Domestic hot water
All of the display and setting values, concerning the domestic hot water system.

Heating circuit I/II
All of the display and setting values, referring the the respective circuits.

Solar / MF
All of the display and setting values, concerning the production of solar energy and multifunctional relay settings.

Parameter editing procedure

Open the control door

- turn anti-clockwise
- turn clockwise

Display

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Selection</th>
</tr>
</thead>
<tbody>
<tr>
<td>SETUP</td>
<td>HOT-WATER</td>
</tr>
<tr>
<td>HTG CIRCUIT I</td>
<td>HTG CIRCUIT II</td>
</tr>
<tr>
<td>SOLAR / MF</td>
<td>SETUP</td>
</tr>
<tr>
<td>DATE / TIME / HOLIDAY</td>
<td></td>
</tr>
</tbody>
</table>

User

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Selection</th>
</tr>
</thead>
<tbody>
<tr>
<td>SETUP</td>
<td>HOT-WATER</td>
</tr>
<tr>
<td>HTG CIRCUIT I</td>
<td>HTG CIRCUIT II</td>
</tr>
<tr>
<td>SOLAR / MF</td>
<td>SETUP</td>
</tr>
</tbody>
</table>

Time program

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Selection</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIRCL TIME</td>
<td>HOTW-PROG</td>
</tr>
<tr>
<td>HTG-PROG I</td>
<td>etc</td>
</tr>
</tbody>
</table>

Expert

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Selection</th>
</tr>
</thead>
<tbody>
<tr>
<td>SETUP</td>
<td>HOT-WATER</td>
</tr>
<tr>
<td>HTG CIRCUIT I</td>
<td>HTG CIRCUIT II</td>
</tr>
<tr>
<td>SOLAR / MF</td>
<td>SETUP</td>
</tr>
</tbody>
</table>

Plant Expert

Summary of values sent by the element board (EB).

Move to the next editable parameter using the navigation knob and repeat the procedure listed above.
The first time the control door is opened after the system has been powered, the SETUP level will be displayed once; below is the list of the displayed parameters.

Set the parameters: ENGLISH, TIME, YEAR, MONTH, DAY.

PLANT SELECT must be left _ _
The remaining parameters are already set.

ATTENTION:
The FACTORY SET CONFIGURATION PARAMETERS are listed below to avoid damage caused by incorrect use, refer to the manual ‘E8 System Manager INSTRUCTIONS FOR USE’ supplied with the boiler.

---

### SETUP

- **ENGLISH**: Press to open the Sub Level
  - Press to memorise the value

- **TIME**: Press to open the Sub Level
  - 1

- **YEAR**: Press to open the Sub Level
  - 1

- **MONTH**: Press to open the Sub Level
  - 1

- **DAY**: Press to open the Sub Level
  - 1

- **PLANT SELECT**: = ----
  - Press to open the Sub Level

---

### Parameters:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value ARES Exp TGC Master</th>
<th>Value ARES Exp TGC Slave</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS-ID HS</td>
<td>----</td>
<td>01 ÷ 08</td>
</tr>
<tr>
<td>HS 1 TYPE</td>
<td>06</td>
<td>06</td>
</tr>
<tr>
<td>HS1 BUS</td>
<td>02</td>
<td>02</td>
</tr>
<tr>
<td>HS 2 TYPE</td>
<td>00</td>
<td>00</td>
</tr>
<tr>
<td>STORAGE HS2</td>
<td>00</td>
<td>00</td>
</tr>
<tr>
<td>BUFFER TYPE</td>
<td>00</td>
<td>00</td>
</tr>
<tr>
<td>HC FUNCTION 2</td>
<td>00</td>
<td>00</td>
</tr>
<tr>
<td>CAP/STAGE</td>
<td>'SCAN'</td>
<td>'SCAN'</td>
</tr>
<tr>
<td>FUNC RELAY 1</td>
<td>00</td>
<td>00</td>
</tr>
<tr>
<td>T-MF1 SETP</td>
<td>30.0</td>
<td>30.0</td>
</tr>
<tr>
<td>MF1 HYST</td>
<td>5.0</td>
<td>5.0</td>
</tr>
<tr>
<td>FUNC RELAY 2</td>
<td>00</td>
<td>00</td>
</tr>
<tr>
<td>T-MF2 SETP</td>
<td>30.0</td>
<td>30.0</td>
</tr>
<tr>
<td>MF2 HYST</td>
<td>5.0</td>
<td>5.0</td>
</tr>
<tr>
<td>FUNC RELAY 4</td>
<td>02</td>
<td>02</td>
</tr>
<tr>
<td>T-MF4 SETP</td>
<td>30.0</td>
<td>30.0</td>
</tr>
<tr>
<td>MF4 HYST</td>
<td>5.0</td>
<td>5.0</td>
</tr>
<tr>
<td>BUS ID 1</td>
<td>01</td>
<td>----</td>
</tr>
<tr>
<td>1K SENSORS</td>
<td>00</td>
<td>00</td>
</tr>
</tbody>
</table>
2.2 SETTING PARAMETERS

Field Description: GENERAL

The GENERAL field contains two fields: DATE/TIME and SERVICE (*).

(* Only highlight the SERVICE symbol with the E8 flap closed.)
# Instructions for use

## GENERAL field.

<table>
<thead>
<tr>
<th>LEVELS</th>
<th>DESCRIPTION</th>
<th>ADJUSTMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>DATE/TIME</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TIME</td>
<td>Time Adjustment</td>
<td>00:00 - 24:00</td>
</tr>
<tr>
<td>YEAR</td>
<td>Current Year Adjustment</td>
<td>XXXX</td>
</tr>
<tr>
<td>MONTH</td>
<td>Current Month Adjustment</td>
<td>01 - 12</td>
</tr>
<tr>
<td>DAY</td>
<td>Current Day Adjustment</td>
<td>01 - 31</td>
</tr>
<tr>
<td>HOLIDAYS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>START YEAR</td>
<td></td>
<td>XXXX</td>
</tr>
<tr>
<td>START MONTH</td>
<td>Adjust - the current month of the start of the holidays</td>
<td>01 - 12</td>
</tr>
<tr>
<td>START DAY</td>
<td>Adjust - the current day of the start of the holidays</td>
<td>01 - 31</td>
</tr>
<tr>
<td>STOP YEAR</td>
<td>Adjust - the current year of the end of the holidays</td>
<td>XXXX</td>
</tr>
<tr>
<td>STOP MONTH</td>
<td>Adjust - the current month of the end of the holidays</td>
<td>12 - 31</td>
</tr>
<tr>
<td>STOP DAY</td>
<td>Adjust - the current day of the end of the holidays</td>
<td>01 - 31</td>
</tr>
<tr>
<td>SUMMER TIME</td>
<td></td>
<td></td>
</tr>
<tr>
<td>START MONTH</td>
<td>Adjust - the month for the start of BST</td>
<td>01 - 12</td>
</tr>
<tr>
<td>START DAY</td>
<td>Adjust - the first day for the start of BST</td>
<td>01 - 31</td>
</tr>
<tr>
<td>STOP MONTH</td>
<td>Adjust - the month for the end of BST</td>
<td>01 - 12</td>
</tr>
<tr>
<td>STOP DAY</td>
<td>Adjust - the first month for the end of BST</td>
<td>01 - 31</td>
</tr>
</tbody>
</table>
**Instructions for Use**

**Field Description:** SERVICE

**NOTE:** Some menus are only visible when connected to the relative probe. e.g. DOMESTIC HOT WATER is only visible when storage tank sensor is connected.

Open the door, the screen will display:

- DISPLAY
  - Turn anti-clockwise

After 2 seconds the level is displayed on the screen:

- GENERAL
  - Turn anti-clockwise

Press to exit:

- RELAY TEST
  - Turn clockwise

Press to open the level:

- ACCESS CODE
  - Enter access code

- SENSOR TEST
  - Turn clockwise

- SENSOR TEST 00
  - Turn clockwise

- SENSOR TEST F1
  - Turn clockwise

- SENSOR TEST F2
  - Turn clockwise

- SENSOR TEST F3
  - Turn clockwise

- SENSOR TEST F5
  - Turn clockwise

- SENSOR TEST F6
  - Turn clockwise

- SENSOR TEST F8
  - Turn clockwise

- SENSOR TEST F9
  - Turn clockwise

- SENSOR TEST F11
  - Turn clockwise

- SENSOR TEST F12
  - Turn clockwise

- SENSOR TEST F13
  - Turn clockwise

- SENSOR TEST F14
  - Turn clockwise

- SENSOR TEST F15
  - Turn clockwise

Press to exit:

- RELAY TEST
  - Turn clockwise

- OTHER PARAMETERS
  - Turn clockwise

- SW NO XXXX
  - (*
  - (CASC MANUAL 1 - 8
  - (BURNER TIME 1 - 8
  - (BURNER START 1 - 8
  - (LIMITER TEST 1 - 8
  - (SERVICE 1 - 8
  - (RESET USER 00
  - (RESET EXPERT 00
  - (RESET PROG. 00
  - (RETURN

Press to exit:

- OTHER PARAMETERS

Press to exit:

- RELAY TEST

Press to exit:

- SENSOR TEST
### LEVELS

<table>
<thead>
<tr>
<th>RELAY TEST</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>RELAY 00</td>
<td>No relay</td>
</tr>
<tr>
<td>RELAY 01</td>
<td>A1: Heating circuit pump 1</td>
</tr>
<tr>
<td>RELAY 02</td>
<td>A2: Heating circuit pump 2</td>
</tr>
<tr>
<td>RELAY 03</td>
<td>A3: Storage tank load pump</td>
</tr>
<tr>
<td>RELAY 04</td>
<td>A4: Mixing valve OPEN Heating circuit 2</td>
</tr>
<tr>
<td>RELAY 05</td>
<td>A5: Mixing valve CLOSED Heating circuit 2</td>
</tr>
<tr>
<td>RELAY 06</td>
<td>A6: GC 1 ON</td>
</tr>
<tr>
<td>RELAY 07</td>
<td>A7: GC 2 ON (2 levels: GC 1+2 (after 10 seconds) ON)</td>
</tr>
<tr>
<td>RELAY 08</td>
<td>A8: Mixer OPEN heating circuit 1/multifunction 1</td>
</tr>
<tr>
<td>RELAY 09</td>
<td>A9: Mixer CLOSED heating circuit 1/multifunction 2</td>
</tr>
<tr>
<td>RELAY 10</td>
<td>A10: Multifunction 3</td>
</tr>
<tr>
<td>RELAY 11</td>
<td>A11: Manifold pump / multifunction 4</td>
</tr>
</tbody>
</table>

### SENSOR TEST

<table>
<thead>
<tr>
<th>SENSOR TEST</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>F1</td>
<td>Below temperature buffer boiler</td>
</tr>
<tr>
<td>F2</td>
<td>Above temperature buffer boiler</td>
</tr>
<tr>
<td>F3</td>
<td>Heating circuit flow temperature 2</td>
</tr>
<tr>
<td>F5</td>
<td>Above hot water temperature</td>
</tr>
<tr>
<td>F6</td>
<td>Heat generator / tank</td>
</tr>
<tr>
<td>F7</td>
<td>External temperature</td>
</tr>
<tr>
<td>F11</td>
<td>Heating circuit flow temperature 1 multifunction temp. saving 1</td>
</tr>
<tr>
<td>F12</td>
<td>Multifunction temp. saving below hot water temperature 2</td>
</tr>
<tr>
<td>F13</td>
<td>Manifold saving solid boiler 2 multifunction temp. saving 3</td>
</tr>
<tr>
<td>F14</td>
<td>Manifold 1 multifunction temp. saving temperature 4</td>
</tr>
<tr>
<td>F15</td>
<td>Heating circuit room temperature 2 saving Value measured by the light sensor 0-10 V input voltage value saving</td>
</tr>
</tbody>
</table>

### OTHER PARAMETERS

<table>
<thead>
<tr>
<th>OTHER PARAMETERS</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW NO XXX-XX</td>
<td>Software number with index</td>
</tr>
<tr>
<td>CASC MANUAL (1 - 8)</td>
<td>Start single burner levels in cascade</td>
</tr>
<tr>
<td>BURNER TIME (1 - 8)</td>
<td>Duration of burner operation for all levels</td>
</tr>
<tr>
<td>BURNER START (1 - 8)</td>
<td>Burner ignition for all levels</td>
</tr>
<tr>
<td>LIMITER TEST (1 - 8)</td>
<td>Safety limiter test with HG temp. display</td>
</tr>
<tr>
<td>SERVICE</td>
<td>Enter date / time for maintenance notification</td>
</tr>
<tr>
<td>RESET USER 00</td>
<td>(Never use these reset functions)</td>
</tr>
<tr>
<td>RESET EXP 00</td>
<td>(Never use these reset functions)</td>
</tr>
<tr>
<td>RESET PROG 00</td>
<td>(Never use these reset functions)</td>
</tr>
<tr>
<td>RETURN</td>
<td></td>
</tr>
</tbody>
</table>
**INSTRUCTIONS FOR USE**

Field Description: **DISPLAY**

**NOTE:** Some menus are only visible when connected to the relative probe.

*e.g. DOMESTIC HOT WATER is only visible when storage tank sensor is connected.*
**DISPLAY field.**

<table>
<thead>
<tr>
<th>LEVELS</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-OUTSIDE</td>
<td>Outside temperature</td>
</tr>
<tr>
<td>EXT SETPOINT</td>
<td>External nominal value model (0-10 V)</td>
</tr>
<tr>
<td>T-HEADER DES</td>
<td>HG / Nominal tank value (cascade)</td>
</tr>
<tr>
<td>T-HEADER</td>
<td>HG / Tank temperature (cascade)</td>
</tr>
<tr>
<td>T-HS</td>
<td>Temperature level and HG status (HG1 - HG8)</td>
</tr>
<tr>
<td>T-SOLID FUEL</td>
<td>In HG 2 = boiler for solid fuels (A )</td>
</tr>
<tr>
<td>T-RETURN 1</td>
<td>Backflow temperature of HG1</td>
</tr>
<tr>
<td>T-RETURN 2</td>
<td>Backflow temperature of HG2</td>
</tr>
<tr>
<td>T-BUFFER T</td>
<td>Sample buffer temp</td>
</tr>
<tr>
<td>T-BUFFER M</td>
<td>HG loading zone buffer temp</td>
</tr>
<tr>
<td>T-BUFFER B</td>
<td>Solar area buffer temp</td>
</tr>
<tr>
<td>T-STORAGE 3</td>
<td>Tank temperature 3 (e.g. swimming pool solar heating)</td>
</tr>
<tr>
<td>MOD DEPTH</td>
<td>Degree of modulation</td>
</tr>
</tbody>
</table>

**DOMESTIC HOT WATER**

| T-DHW DES    | Current temperature of hot water sec. progr.                                |
| T-DHW        | Current temperature of the domestic water                                  |
| T-DHW I      | Temperature of the DHW boiler in the bottom field                           |
| T-CIRCL      | Circulation backflow temperature                                            |

**HEATING CIRCUIT 1 / 2**

| T-ROOM DES A | Current nominal room temperature                                             |
| T-ROOM       | Current room temperature                                                     |
| HUMIDITY     | Indication of the room humidity                                              |
| T-POOL DES   | Nominal swimming pool temperature                                            |
| T-POOL       | Current swimming pool temperature                                            |
| T-DHW DES    | Nominal domestic hot water temperature                                       |
| T-DHW        | Current domestic hot water temperature                                       |
| T-FLOW DES   | Current nominal flow temperature                                             |
| T-FLOW       | Current flow temperature                                                     |
| N-OPTI-TIME  | Last requested period of heating                                             |

**SOLAR / MF**

| T-MF1        | Sensor temperature MF1 (=F11)                                               |
| T-MF2        | Sensor temperature MF2 (=F12)                                               |
| T-MF3        | Sensor temperature MF3 (=F13)                                               |
| T-MF4        | Sensor temperature MF4 (=F14)                                               |
| MF4          | Manifold temperature 1                                                       |
| T-HEADER 1   | Over hot water temperature                                                   |
| T-DHW I      | Supply hot water temperature                                                 |

**NOTE:** For detailed information refer to the instructions manual for use of the E8 Thermo Controller.
**Field Description: USER**

**NOTE:** Some menus are only visible when connected to the relative probe.

*E.g. DOMESTIC HOT WATER is only visible when storage tank sensor is connected.*

---

**Instructions for Use**

**SETUP**
- Press to open the level
- Turn clockwise
- Change the value
- **LANGUAGE**
- **CONTRAST**
- **DISPLAY SEL**
- **SELECT PROG**
- **RETURN**

**HOT - WATER**
- Press to open the level
- Turn clockwise
- Change the value
- **1X HOT - WATER**
- **T - DHW DES 1**
- **T - DHW DES 2**
- **T - DHW DES 3**
- **BOB - VALUE**
- **CIRCL - P - DHW**
- **ANTILEGION**
- **RETURN**

**HTG CIRCUIT I/II**
- Press to open the level
- Turn clockwise
- Change the value
- **MODE**
- **T - ROOM DES 1**
- **T - ROOM DES 2**
- **T - ROOM DES 3**
- **T - REDUCED (*)**
- **T - ABSENCE**
- **T - LIMIT DAY**
- **T - LIMIT N**
- **HEATSLOPE**
- **ADAPTATION**
- **ROOM INFL**
- **T - ROOM ADJ**
- **OPT HEAT UP**
- **MAX OPT - TIME**
- **OPT REDUCED**
- **PC - ENABLED**
- **RETURN**

**SOLAR M/F**
- Turn clockwise
- **NOT AVAILABLE**

---

Open the door, find the field

After 2 seconds the level is displayed on the screen

Press to exit

---

E8 Thermo Controller - Alpha ARES Tec 200 - 900

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**USER field.**

<table>
<thead>
<tr>
<th>LEVELS</th>
<th>DESCRIPTION</th>
<th>ADJUSTMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SETUP</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LANG</td>
<td>Choose Language</td>
<td>ENG</td>
</tr>
<tr>
<td>CONTRAST</td>
<td>Display brightness setting</td>
<td>00 (-20) / (20)</td>
</tr>
<tr>
<td>DISPLAY SEL</td>
<td>Select a supplementary display</td>
<td>----</td>
</tr>
<tr>
<td>SELECT PROG</td>
<td>Choose heating circuit 1 / heat. 2</td>
<td>01 (01 - 02)</td>
</tr>
<tr>
<td>RETURN</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**DOMESTIC HOT WATER**

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1X DHW</td>
<td>Disable dhw times</td>
<td>00 (00 - 01)</td>
</tr>
<tr>
<td>T-DHW 1</td>
<td>Hot water temp. 1 (time period 1)</td>
<td>60 (10 - 70)</td>
</tr>
<tr>
<td>T-DHW 2</td>
<td>Hot water temp. 2 (time period 2)</td>
<td>60 (10 - 70)</td>
</tr>
<tr>
<td>T-DHW 3</td>
<td>Hot water temp. 3 (time period 3)</td>
<td>60 (10 - 70)</td>
</tr>
<tr>
<td>BOB VALUE</td>
<td>Solar integration energy savings function</td>
<td>0 (0 - 70)</td>
</tr>
<tr>
<td>CIRCL-P-DHW</td>
<td>Enable storage tank recirc</td>
<td>0 (0 - 1)</td>
</tr>
<tr>
<td>ANTILEGION</td>
<td>Enable anti-legionella function</td>
<td>0 (0 - 1)</td>
</tr>
<tr>
<td>RETURN</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**HEATING CIRCUIT 1 / 2**

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>MODE</td>
<td>Operating mode setting</td>
<td>-----</td>
</tr>
<tr>
<td>T-ROOM 1</td>
<td>Room temperature 1</td>
<td>20 (5 - 40)</td>
</tr>
<tr>
<td>T-ROOM 2</td>
<td>Room temperature 2</td>
<td>20 (5 - 40)</td>
</tr>
<tr>
<td>T-ROOM 3</td>
<td>Room temperature 3</td>
<td>20 (5 - 40)</td>
</tr>
<tr>
<td>T-REDUCED</td>
<td>Required temperature for night-shift</td>
<td>10 (5 - 40)</td>
</tr>
<tr>
<td>T-ABSENCE</td>
<td>Required temperature during holidays</td>
<td>15 (5 - 40)</td>
</tr>
<tr>
<td>T-LIMIT DAY</td>
<td></td>
<td>19 (-5 - +40)</td>
</tr>
<tr>
<td>T-LIMIT N</td>
<td></td>
<td>10 (-5 - +40)</td>
</tr>
<tr>
<td>HEATSLOPE</td>
<td>External temp. compensation curve</td>
<td>1,20 (0 - 3)</td>
</tr>
<tr>
<td>ADAPTION</td>
<td>Autom. heating curve setting</td>
<td>0 (0 - 1)</td>
</tr>
<tr>
<td>ROOM INFL</td>
<td>Effect of room sensor</td>
<td>10 (0 - 20)</td>
</tr>
<tr>
<td>T-ROOM ADJ</td>
<td>Thermometer calibration</td>
<td>0 (5K - -5K)</td>
</tr>
<tr>
<td>OPT HEAT UP</td>
<td>Heat optimisation</td>
<td>0 (00 - 02)</td>
</tr>
<tr>
<td>MAX OPT-TIME</td>
<td>Maximum heating optim. anticipation</td>
<td>2 (00 - 03)</td>
</tr>
<tr>
<td>OPT REDUCED</td>
<td>Reduction optimisation</td>
<td>0 (00 - 02)</td>
</tr>
<tr>
<td>PC-ENABLE</td>
<td>Enable PC</td>
<td>0000 (0000 - 9999)</td>
</tr>
<tr>
<td>RETURN</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SOLAR / MF**

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>NOT AVAILABLE</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Instructions for Use

Field Description: TIME PROGRAM

NOTE: Some menus are only visible when connected to the relative probe.
e.g. DOMESTIC HOT WATER is only visible when storage tank sensor is connected.

Open the door, find the field

Choose the day

MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY SATURDAY SUNDAY MON - FRI SAT - SUN MON - SUN RETURN

CIRCL TIME

Control time programme for the circulation pump

DHW PROGRAM (*)

Control time programme for domestic hot water production

HTG-PROG 1

1. Heat programme for the first heating circuit of the regulator

HTG-PROG 2

2. Heat programme for the first heating circuit of the regulator

HTG-PROG 1

1. Heat programme for the second heating circuit of the regulator

HTG-PROG 2

2. Heat programme for the second heating circuit of the regulator

(*) Only enabled with parameter 1X DHW = 00

Setting the time on: -- : -- the time period is excluded.
Instructions for use

Field Description: EXPERT

Open the door, find the field EXPERT

After 2 seconds the level is displayed on the screen

Access Code → Enter access code

BUS - ID HS → Change the value

BUS - ID 1 → Change the value

BUS - ID 2 → Change the value

AF Supply → Change the value

BUS Termin → Change the value

EBUS Supply → Change the value

Time Master → Change the value

Max T - Header → Change the value

Min T - Header → Change the value

Max T - HS 2 → Change the value

Min T - HS 2 → Change the value

V - Curve → Change the value

Curve 11 - U1 → Change the value

Curve 11 - U2 → Change the value

Curve 11 - T1 → Change the value

CURVE 11 - T2 → Change the value

CURVE 11 - UA → Change the value

T - WARM UP → Change the value

Min Delimi → Change the value

HYST → Change the value

HYST Time → Change the value

Detected HS → Change the value

Cap/Stage → Change the value

Config New → Change the value

Min Mod Cas → Change the value

Dhw Levels → Change the value

Control Dev → Change the value

Des Output → Change the value

Switch Value → Change the value

Lock Time → Change the value

Max T - HSX → Change the value

Dyn Upward → Change the value

Dyn Downward → Change the value

Reset Time → Change the value

Modulat Max → Change the value

Modulat Min → Change the value

Modulat Dhw → Change the value

Sequence 1 → Change the value

Sequence 2 → Change the value

Sequ Change → Change the value

Block - Time → Change the value

Hyst Burner2 → Change the value

Boiler Seq → Change the value

Hs Cool - Fct → Change the value

T - HS Cool → Change the value

Hs 1 type → Change the value

Hs 1 bus → Change the value

Hs 2 type → Change the value

Press to exit

Press to open the level

See the following page for a description of the outlined fields

Storage HS2 → Change the value

Buffer type → Change the value

Scree → Change the value

Scree Progr → Change the value

Return → Change the value

HOT - WATER → Turn clockwise

Heating Circuit I/II → Turn clockwise

Solar M/F → Turn clockwise
Instructions for use

Open the door, find the field EXPERT

After 2 seconds the level is displayed on the screen

Press to open the level

Press to open the level

Press to open the level

Press to exit

Press to exit

Press to exit

Press to exit

Press to exit
Instructions for use

Turn clockwise

Open the door, find the field

EXPERT

Press to open the level

Press to exit

PARAM HS:
01 - 02 - 03 - 04 - 05 - 06 - 07 - 08:

- Fan Mod Ign
- Fan Mod Stby
- Fan Max
- Fan Min
- Max Diff Pro
- Min Flow Pro
- Min Flow Rat
- Boil Hys
- Boil Slp Lim
- Boil P Val
- Boil I Val
- Boil D Val
- Pump Overrun
- Pump Min Mod
- Cap Flow Rate
- Fan P Val
- Fan I Val
- Fan Slp
- Fan Slp Pos
- Fan Slp Neg
- Fan Start Pw
- Fan Adapt
- Restarts
- Sw No
- Sw Rwv

Display boiler board factory parameters (module 1)
Display boiler board factory parameters (module 2)
Display boiler board factory parameters (module 3)
Display boiler board factory parameters (module 4)
Display boiler board factory parameters (module 5)
Display boiler board factory parameters (module 6)
Display boiler board factory parameters (module 7)
Display boiler board factory parameters (module 8)
## Instructions for use

### Expert field.

<table>
<thead>
<tr>
<th>Levels</th>
<th>Description</th>
<th>Adjustments</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Setup</strong></td>
<td></td>
<td>Setting</td>
</tr>
<tr>
<td>Bus-ID HS</td>
<td>Address bus boiler only for additional E8 controllers</td>
<td>----</td>
</tr>
<tr>
<td>Bus ID 1</td>
<td>Number of heating circuits</td>
<td>01</td>
</tr>
<tr>
<td>Bus ID 2</td>
<td>Number of heating circuits</td>
<td>--</td>
</tr>
<tr>
<td>Af Supply</td>
<td>External probe power supply</td>
<td>01</td>
</tr>
<tr>
<td>Bus Term</td>
<td>Bus connection</td>
<td>01</td>
</tr>
<tr>
<td>Eb Supply</td>
<td>Power supply for eBUS</td>
<td>01</td>
</tr>
<tr>
<td>Time Master</td>
<td>'01' controller is time master</td>
<td>00</td>
</tr>
<tr>
<td>Max T-Header</td>
<td>Maximum manifold temperature</td>
<td>85°C</td>
</tr>
<tr>
<td>Min T-Header</td>
<td>Minimum manifold temperature</td>
<td>10°C</td>
</tr>
<tr>
<td>Max T-HS2</td>
<td>Maximum heating circuit temperature 2</td>
<td>85°C</td>
</tr>
<tr>
<td>Min T-HS2</td>
<td>Minimum heating circuit temperature 2</td>
<td>40°C</td>
</tr>
<tr>
<td>V-Curve</td>
<td>Select the voltage curve</td>
<td>11°C</td>
</tr>
<tr>
<td>Curve 11 - U1</td>
<td>Curve points 11 U1 maximum point</td>
<td>1 V</td>
</tr>
<tr>
<td>Curve 11 - U2</td>
<td>Curve points 11 U2 maximum point</td>
<td>10 V</td>
</tr>
<tr>
<td>Curve 11 - T1</td>
<td>Curve points 11 T1 minimum temperature</td>
<td>20°C</td>
</tr>
<tr>
<td>Curve 11 - T2</td>
<td>Curve points 11 T2 maximum temperature</td>
<td>85°C</td>
</tr>
<tr>
<td>Curve 11 - UA</td>
<td>Minimum voltage to turn on heating</td>
<td>2 V</td>
</tr>
<tr>
<td>T-Warm Up</td>
<td>Warm up relief</td>
<td>35°C</td>
</tr>
<tr>
<td>Min Delimi</td>
<td>Minimum delimiter HS</td>
<td>0</td>
</tr>
<tr>
<td>Hyst</td>
<td>Dyn switching hysteresis stage 1</td>
<td>5</td>
</tr>
<tr>
<td>Hyst Time</td>
<td>Display of heat generators automatically reported via bus</td>
<td>0</td>
</tr>
<tr>
<td>Detected HSS</td>
<td>Number of detected modules (only visual)</td>
<td>----</td>
</tr>
<tr>
<td>Cap/Stage</td>
<td>Module power levels</td>
<td>----</td>
</tr>
<tr>
<td>New Config</td>
<td>New Ebus configuration</td>
<td>0</td>
</tr>
<tr>
<td>Min Mod Casc</td>
<td>Minimum cascade modulation</td>
<td>0</td>
</tr>
<tr>
<td>Dhw Levels</td>
<td>Number of levels for DHW</td>
<td>0</td>
</tr>
<tr>
<td>Control Dev</td>
<td>Difference between required temp. and actual temp. (visual)</td>
<td>0</td>
</tr>
<tr>
<td>Des Output</td>
<td>System power request in % (visual)</td>
<td>----</td>
</tr>
<tr>
<td>Switch Value</td>
<td>Only for switching cascade</td>
<td>(-99 - +99)</td>
</tr>
<tr>
<td>Lock Time</td>
<td>Actual residual value (visual)</td>
<td>0</td>
</tr>
<tr>
<td>Max T-HS</td>
<td>Maximum boiler temperature</td>
<td>90°C</td>
</tr>
<tr>
<td>Dyn Upward</td>
<td>Dynamic boiler switch on</td>
<td>100</td>
</tr>
<tr>
<td>Dyn Downward</td>
<td>Dynamic boiler switch off</td>
<td>80</td>
</tr>
<tr>
<td>Reset Time</td>
<td>Readjustment time for regulators</td>
<td>180</td>
</tr>
<tr>
<td>Modulat Max</td>
<td>Maximum modulation</td>
<td>30</td>
</tr>
<tr>
<td>Modulat Min</td>
<td>Minimum modulation</td>
<td>35</td>
</tr>
<tr>
<td>Min Mod HS</td>
<td>Connection of the next boiler</td>
<td>35</td>
</tr>
<tr>
<td>Modulat Dhw</td>
<td>Modulation degree for the boiler</td>
<td>80</td>
</tr>
<tr>
<td>Sequence 1</td>
<td>Boiler succession 1 (visual)</td>
<td>---</td>
</tr>
<tr>
<td>Sequence 2</td>
<td>Boiler succession 2 (visual)</td>
<td>---</td>
</tr>
<tr>
<td>Sequence Change</td>
<td>Type of succession change</td>
<td>06</td>
</tr>
<tr>
<td>Boiler Seq</td>
<td>Interval between succession changes</td>
<td>200</td>
</tr>
<tr>
<td>Block-Time</td>
<td>Minimum waiting time</td>
<td>01</td>
</tr>
<tr>
<td>Hyst Burner2</td>
<td>Hysteresis 2 burner</td>
<td>2</td>
</tr>
<tr>
<td>Hs Cool-Fct</td>
<td>Boiler cooling function not used</td>
<td>0</td>
</tr>
<tr>
<td>T-HS Cool</td>
<td>Initial cooling temperature not used</td>
<td>80</td>
</tr>
<tr>
<td>Hs 1 Type</td>
<td>Type of heat generator</td>
<td>06/02</td>
</tr>
<tr>
<td>Hs 1 Bus</td>
<td>Connection for heat generators</td>
<td>02/03</td>
</tr>
</tbody>
</table>
**LEVELS** | **DESCRIPTION** | **ADJUSTMENTS**  
--- | --- | ---  
**SETUP** |  |  
HS 2 TYPE | Type of generator | Setting Range (00 - 05)  
STORAGE HS2 | Thermoregulation for boiler 2 | 0 (00 - 03)  
BUFFER TYPE | Type of boiler for buffer heating | 0 (00 - 03)  
SCREED | Turn on screed | 0 (00 - 01)  
SCREED PROGR | Screed programme |  
**DOMESTIC HOT WATER** |  |  
PUMP CHRG | Load pump block | 0 (00 - 01)  
PARALLEL DHW | Parallel pump operation | 0 (00 - 03)  
T-DHW | Nominal boiler temperature in DHW preparation | 20 (00 - 50)  
HYST DHW | Hysteresis | 5 (5 - 30)  
DHW FOLLOWUP | Pump inertia time | 0 (00 - 30)  
THERM INPUT | Boiler with thermostat | 0 (00 - 01)  
WALL HUNG | Actual boiler temperature + T DHW | 0 (00 - 01)  
LOAD THROUGH | Enable continuous loading | 0 (00 - 01)  
**HEATING CIRCUIT 1 / 2** |  |  
HC FUNCTION | Select functions for the heating circuit | 0 (00 - 04)  
PUMP FUNC | Pump operation mode | 02 (00 - 03)  
MIXER OPEN | Mixer opening dynamic | 18 (5 - 25)  
MIXER CLOSED | Mixer closing dynamic | 12 (5 - 25)  
MAX T-FLOW | Maximum flow temperature | 80 (20 - 110)  
MIN T-FLOW | Minimum flow temperature | 10 (10 - 110)  
T-FROST PROT | Frost temperature | 0 (-15 - +5)  
T-OUT DELAY | External temperature delay | 0 (0 - 24)  
SLOPE OFFSET | Heating curve distance | 5 (0 - 50)  
B-HEAT SINK | Enable circuit | 0 (00 - 01)  
**SOLAR / MF** |  |  
MF FUNC | Multifunction relay (from 01 to 04) | -- (00 - 26)  
MF T-NOM | Nom. temp. for relay switching (from 01 to 04) | 30 (30 - 90)  
MF HYST | Hysteresis | 5 (2 - 10)  
FUNC. F15 | Function sensor F15 (enable 10V input) | 0 (00 - 02)  

The shaded parameters provided on the previous page change according to the type of generator and use, either cascade or single (Section. 2.1).  

**NOTE:** For detailed information refer to the instructions manual for use of the E8 thermo controller. Some menus are only visible when the relative sensor is connected.
2.3 OTHER POSSIBLE SETTINGS

Settings for heating circuits 1 \ 2

- **Heating adjusted to fixed flow temperature (no external probe)**
  
  This provides the possibility of setting a fixed flow temperature on the selected circuit.
  
  Expert Field ➔ Heating circuit I/II ➔ HC FUNCTION ‘01’ (for more information see the chapter relative to the E8 Thermo Controller manual).

  Heating circuits temperature settings (Only after the function has been set).
  
  User field ➔ Heat. circuit I / II ➔ T-FLOW DAY.
  
  User field ➔ Heat. circuit I / II ➔ T-FLOW REDUC.

- **Second storage tank. (Only after the function has been set)**
  
  This provides the possibility of using one of the heating zones for the preparation of a second storage tank.
  
  Expert Field ➔ Heating circuit I/II ➔ HC FUNCTION ‘03’ (for more information see the chapter relative to the E8 Thermo Controller manual).

- **Second storage tank temperature settings**
  
  User field ➔ Heat. circuit I / II ➔ T-DHW.

- **Pool regulator**
  
  This provides the possibility of using one of the heating zones to heat a swimming pool.
  
  Connect the swimming pool sensor to the connector (III 1+2).
  
  Expert Field ➔ Heating circuit I/II ➔ HC FUNCTION ‘02’ (for more information see the chapter relative to the E8 Thermo Controller manual).

- **Pool temperature settings (Only after the function has been set)**
  
  User field ➔ Heat. circuit I / II ➔ T- POOL 1 / 2 / 3.

- **Screed programme (underfloor heating systems)**
  
  Setting a screed-drying programme.
  
  Expert Field ➔ Setup ➔ SCREED ‘01’ (for more information see the chapter relative to the E8 Thermo Controller manual).

- **Screed programme temperature settings**
  
  Expert Field ➔ Setup ➔ SCREED PROGR.

- **0 – 10 V signal usage (see table 1)**
  
  Enable 0 - 10 V input to control the climatic curve through external regulation. (conn. F15).
  
  Expert Field ➔ Solar / MF ➔ FUNCTION F15 ‘01’ (for more information see the chapter relative to the E8 Thermo Controller manual).

- **Curve and temperature settings with 0 – 10 V signal**
  
  Expert Field ➔ Setup ➔ V-CURVE (from 0 to 11).
  
  Expert Field ➔ Setup ➔ CURVE 11 – XX (Freely settable).

DHW circuit settings

- **Parallel pump operation**
  
  The possibility of keeping the heating pumps running, even during DHW production.
  
  Expert Field ➔ Domestic Hot Water ➔ PARALLEL DHW ‘00,01,02,03’ (for more information see the chapter relative to the E8 Thermo Controller manual).

- **Using a storage tank thermostat (on/off)**
  
  Using a storage tank thermostat in place of the storage tank probe.
  
  Expert Field ➔ Domestic Hot Water ➔ THERM INPUT ‘01’ (for more information see the chapter relative to the E8 Thermo Controller manual).

- **Antilegionella**
  
  Enable antilegionella programme.
  
  Expert Field ➔ Domestic Hot Water ➔ ANTILEGION ‘01’ (for more information see the chapter relative to the E8 Thermo Controller manual).

- **Setting for solar manifold use**
  
  Use a PT 1000 probe as a manifold probe.
  
  Expert Field ➔ Solar / MF ➔ FUNC RELAY 4 ’23’ (for more information see the chapter relative to the E8 Thermo Controller manual).

<table>
<thead>
<tr>
<th>N°</th>
<th>U1</th>
<th>U2</th>
<th>T1</th>
<th>T2</th>
<th>UA</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>2.0</td>
<td>10.0</td>
<td>0</td>
<td>90</td>
<td>2.0</td>
</tr>
<tr>
<td>1</td>
<td>2.5</td>
<td>0.3</td>
<td>38</td>
<td>80</td>
<td>5.0</td>
</tr>
<tr>
<td>2</td>
<td>2.5</td>
<td>0.3</td>
<td>38</td>
<td>75</td>
<td>5.0</td>
</tr>
<tr>
<td>3</td>
<td>2.5</td>
<td>0.3</td>
<td>38</td>
<td>45</td>
<td>5.0</td>
</tr>
<tr>
<td>4</td>
<td>4.0</td>
<td>0.1</td>
<td>20</td>
<td>85</td>
<td>5.0</td>
</tr>
<tr>
<td>5</td>
<td>4.0</td>
<td>0.1</td>
<td>20</td>
<td>75</td>
<td>5.0</td>
</tr>
<tr>
<td>6</td>
<td>4.0</td>
<td>0.1</td>
<td>20</td>
<td>55</td>
<td>5.0</td>
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<tr>
<td>7</td>
<td>4.0</td>
<td>0.1</td>
<td>30</td>
<td>87</td>
<td>5.0</td>
</tr>
<tr>
<td>8</td>
<td>4.0</td>
<td>0.1</td>
<td>38</td>
<td>87</td>
<td>5.0</td>
</tr>
<tr>
<td>9</td>
<td>4.0</td>
<td>0.1</td>
<td>38</td>
<td>73</td>
<td>5.0</td>
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<tr>
<td>10</td>
<td>4.0</td>
<td>0.1</td>
<td>38</td>
<td>53</td>
<td>5.0</td>
</tr>
<tr>
<td>11</td>
<td>4.0</td>
<td>0.1</td>
<td>20</td>
<td>90</td>
<td>5.0</td>
</tr>
</tbody>
</table>

**Table 1**

**Key:**

- **U1** - Min volt
- **U2** - Max volt
- **T1** - Min temperature (min volt)
- **T2** - Max temperature (max volt)
- **UA** - Off
2.4 DISPLAY ERROR CODES

If faulty, a flashing triangle and relative fault code and faulty burner number will appear on the regulator screen.

Below are the boiler error codes, relative meanings and corrective actions.

For error codes relative to the heating system, consult the 'Error Search' section in the 'Instructions for Use' manual provided with the E8 Thermo Controller.

Code Meaning

E1 Thermostat trigger limit
E2 Gas supply pressure low
E4 No flame during burner ignition cycle
E5 No flame during burner operation
E6 Overheat temperature (>95°C)
E10 Internal fault in local control board (EB)
E11 Flame presence detected before burner ignition cycle
E12 Faulty local flow sensor
E13 Faulty flow sensor (HP)
E14 Faulty global return sensor
E15 Difference between global return sensor and local flow sensor of > 30°C (rp +10)
E16 Exchanger temperature very low; probable danger of ice
E20 Flame presence detected after burner is switched off
E22 The air pressure switch does not switch within 30 seconds of the beginning of the burner ignition cycle
E23 Air pressure switch contact always on
E24 Fan speed fault: it does not reach the correct speed within 30 seconds at the beginning of the burner ignition cycle
E26 Fan speed fault: the fan does not stop within 30 seconds at the end of the cycle
E27 The air pressure switch detects a fault during the burner ignition cycle
E28 Obstructed flue pipe
E29 Water in the exhaust chamber, excessive condensate level, check whether the trap is obstructed
E30 Change in parameter settings after electrical interference
E32 Supply voltage below 190 Vac
E40 Poor system water circulation
E69 E8: F5 – flow temperature sensor Heating Circuit 2
E70 E8: F11 – flow temperature sensor Heating Circuit 1
E71 E8: F1 – buffer below temperature sensor (Buffer)
E72 E8: F3 – buffer above temperature sensor (Buffer)
E75 E8: F9 – external temperature sensor
E76 E8: F6 – DHW storage tank temperature sensor
E78 E8: F8 – boiler temperature sensor (kf)
E80 E8: F2 – room temperature sensor Heating Circuit 1
E81 E8: EEPROM error. The value is not valid, it has been replaced with the standard value
E83 E8: F15 – room temperature sensor Heating Circuit 2
E90 E8: Address 0 and 1 in the BUS. The bus 0 and 1 codes cannot be used simultaneously
E91 E8: BUS code occupied. The set BUS code is already being used by another appliance
E99 E8: Internal fault
E135 E8: F12 – DHW storage tank below temperature sensor MF2
E136 E8: F13 – Heat Generator 2, manifold 2 MF3
E137 E8: F14 – Manifold 1, MULTIFUNCTION 4
E138 E8: F15 – Room temperature sensor Heating Circuit 2
E200 E8: Safety device intervention (fans at max rpm) / Communication error module 1
E201 E8: Communication error module 2
E203 E8: Communication error module 3
E204 E8: Communication error module 4
E205 E8: Communication error module 5
E206 E8: Communication error module 6
E207 E8: Communication error module 7
E17 BCM: Frozen exchanger (<2°C)
E18 BCM: Flow T Delta - Return 10° greater than Max dt parameter
E19 BCM: Flow probe over temperature (>95° C)
E37 BCM: Internal fault
E38 BCM: Settings corrupted by electromagnetic interference
E56 BCM: No remote control detected
E57 BCM: No E8 detected
E58 BCM: Global flow sensor faulty.
Quick Setup

3 Quick Setup

After 2 seconds the level is displayed on the screen.

Setup

Turn clockwise

HOT - WATER

Turn clockwise

HTG Circuit I/II

Press to open the level

Pump Func

Mixer Open

Mixer Closed

Max T - Flow

Min T - Flow

RETURN

Change the value

Press to exit

Maximum flow temperature

Minimum flow temperature

After 2 seconds the level is displayed on the screen.

Installation

Turn clockwise

HOT - WATER

Turn clockwise

HTG Circuit I/II

Solar M/F

Press to open the level

Mode

T - DHW DES 1

T - DHW DES 2

T - DHW DES 3

RETURN

Press to exit

Change the value

External temperature compensation graph (see following page)
Quick setup

23 E8 Thermo Controller - Alpha ARES Tec 200 - 900

**NOTE:**

1. This manual does not replace the one for the E8 thermo controller, but it is simply an integration designed to simplify operations and understanding.

2. For electrical connections, always consult the boiler installation manual.

(*) Only enabled with parameter $1 \times DH = 00$

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External temperature compensation graph

![External temperature compensation graph](image)

- **Control time programme for the circulation pump**
  - **CIRCL TIME**
  - Turn clockwise

- **1st heating programme for circuit 1**
  - **HTG - PROG 1**
  - Turn clockwise

- **1st heating programme for circuit 2**
  - **HTG - PROG 1**
  - Turn clockwise

- **2nd heating programme for circuit 1**
  - **HTG - PROG 2**
  - Turn clockwise

- **2nd heating programme for circuit 2**
  - **HTG - PROG 2**
  - Turn clockwise

Choose the day

- MONDAY
- TUESDAY
- WEDNESDAY
- THURSDAY
- FRIDAY
- SATURDAY
- SUNDAY
- MON - FRI
- SAT - SUN
- MON - SUN

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Choose on and off time

- Open the door, find the field
- After 2 seconds the level is displayed on the screen

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Control time programme for domestic hot water production

- **DHW PROGRAM (*)**
  - Turn clockwise

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Flow temperature °C

- 100
- 80
- 60
- 40
- 20

External temperature °C

- 3
- 2.5
- 2
- 1.5
- 1.2
- 1
- 0.8
- 0.6
- 0.4
- 0.2

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- External temperature compensation graph
During the service life of the product, performance is affected by external factors, e.g. the hardness of the DHW, atmospheric agents, deposits in the system and so on. The declared data refers to new products that are correctly installed and used in accordance with applicable regulations.

**Note:** Correct periodic maintenance is highly recommended.

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