



Remote control for single light commercial boiler

IE

Instructions and warning book
for the users



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GENERAL SAFETY WARNINGS.

All electrical connections must be carried out by a qualified technician in compliance with the standards and directives in force.

Electrical connection of the regulators.

connect the remote control terminals “A” and “B” respectively to the terminal “M” and “O” of the A38 connection board accessible by removing the rear cover of the boiler control panel.

Boiler address setting: set the “0” address on the clip-in (optional) mounted on the main electronic board.

Key:

A25 - CLIP-IN (optional)

A38 - Connection board (signals)

S20- Room thermostat (optional)

1 - Cable type: J-Y(St)Y 2x2x0,6. Maximum permitted length: 50 m

2 - Address 0

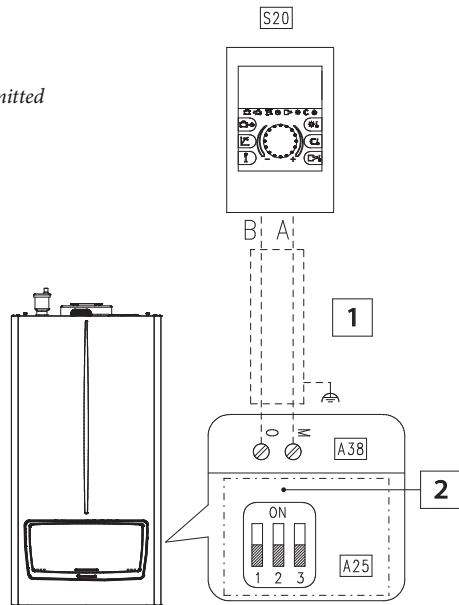
N.B: Remove link X40.

N.B: the ‘CH demand type’ parameter must be set as ‘Room thermostat setpoint’ (default value).

It is possible to connect the following sensors to the device and read them via BUS:

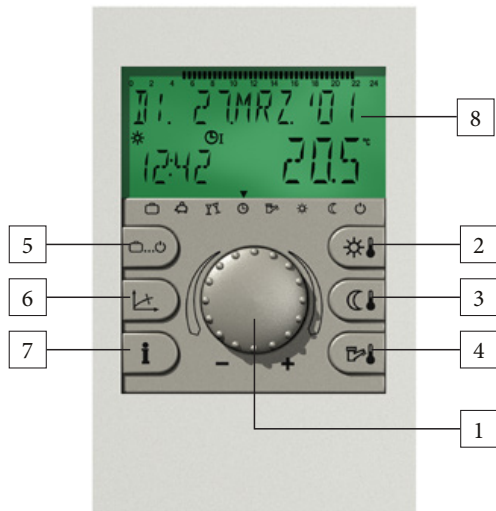
- External probe (B4)
- DHW probe (B2)
- DHW Thermostat/Contact (S50)

N.B: The DHW can be managed locally (appropriately configure the 3-way valve via the parameters in the “Relay settings” menu.



INTRODUCTION.

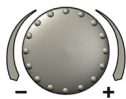
Visualization and control elements.



- 1 - Selection and confirmation knob
- 2 - Setting daytime temperature
- 3 - Setting reduced temperature
- 4 - Setting domestic hot water temperature
- 5 - Heating and set back programs
- 6 - Setting heating parameters
- 7 - System information
- 8 - Display

Operation.

Symbols used in this manual:



turn: select parameters, change values



press once: confirm, store



Language selection
Country code

The center-positioned knob and the labelled keys makes the operation simple and easy to handle. It is however recommended to read this manual attentively to be informed about the repeating steps.

- Each value in the display appears flashing and can be modified with the rotary-push button. A flashing display is appropriately marked in this manual.
Turn to the right (+) clockwise: increase values.
Turn to the left (-) anticlockwise: decrease values.
- Press: acceptance of the selected and indicated value, store.
- Keep pressed for about 3 seconds: entry into the programming level (level selection).

The last operation step will be stored automatically after approximately 60 seconds if it was not stored by touching the knob.

Start-up:

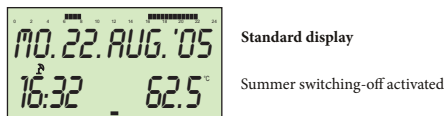
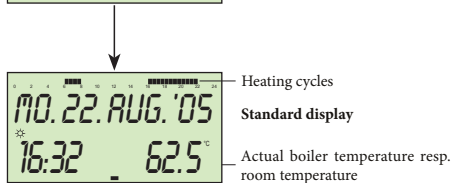
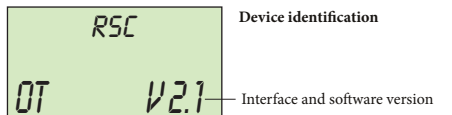
In case of initiation of the plant or after every power failure a display test of the large display is carried out with automatic error diagnosis. At that all available segments and symbols will be displayed.

Language selection:

In case of first initiation the desired language can be chosen after the display test. The languages DE, GB, FR, IT, NL, ES, PT, HU, CZ, PL, RO, RU, TR, S, N can be selected.



This display appears after every restart on day of first initiation until midnight. After that the language can only be changed in the level SYSTEM - parameter LANGUAGE.



Device identification.

After the display test and/or the language selection the device identification momentary appears with device type, interface and the corresponding number of software version.

Basic display.

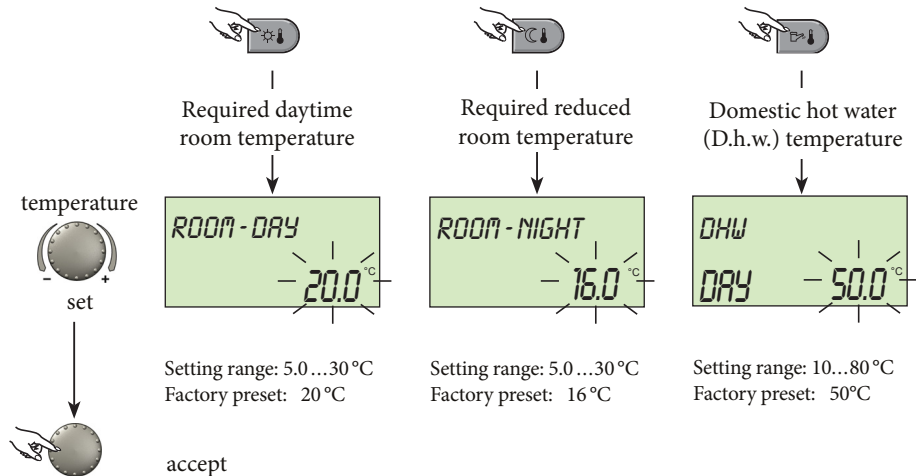
Provided that there is not any error message, the basic display indicates the date, time, heating mode (☀ = daytime temperature, ☁ = reduced set back temperature) as well as the current boiler temperature or, if released, the room temperature. Response time program. The cursor below (-) indicates the current operating mode (see function of operating modes). The upper time bar shows the heating periods and the corresponding operating times of the current weekday.

An activated summer switch-off is represented in the basic display by a sunshade symbol (☂). The heating mode symbols ☀ or ☁ will be suppressed during an activated summer switch-off.

With acting frost protection function an ice crystal symbol appears in the basic display (❄).

KEYS FUNCTION.

Temperature settings.



This button is used to set the daytime room temperature.



This button is used to set the required reduced temperature.



This button is used to set the required domestic hot water temperature.

To change please press the respective button; when the set value flashes, it can be changed through the knob.

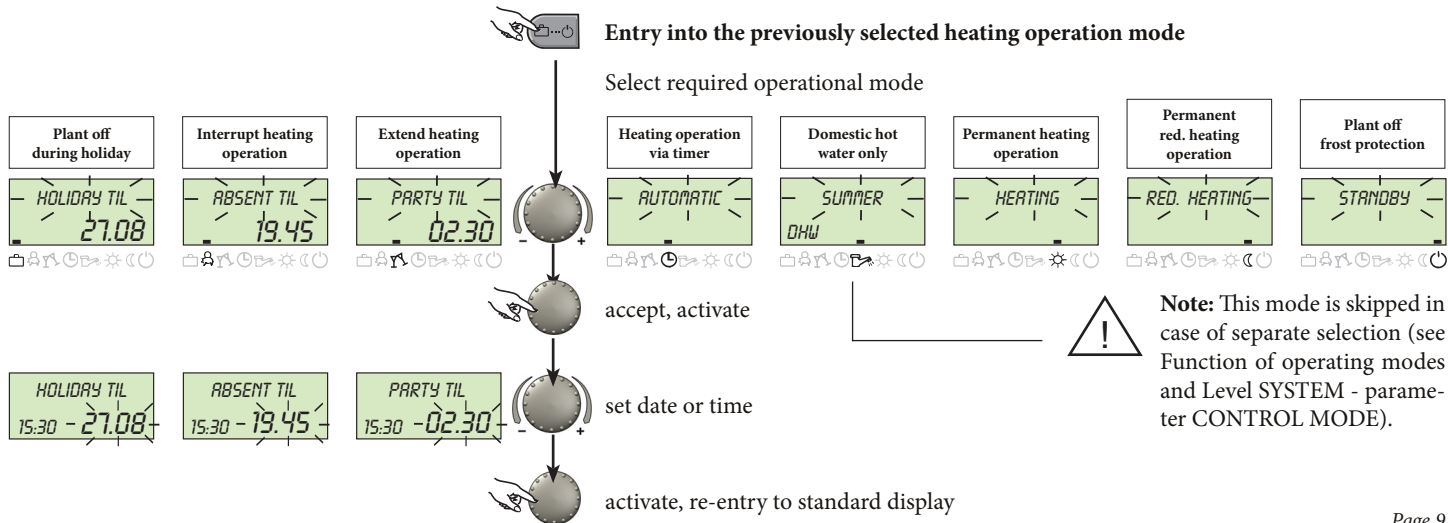
The return to the standard display is done pressing the knob or automatically after 60 seconds.

Operational mode selection for heating and domestic hot water.



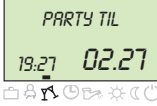
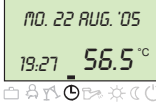









With this button the required operational mode is selected. It appears in plaintext on the display, simultaneously a cursor at the lower edge of the display points to the appertaining program symbol.

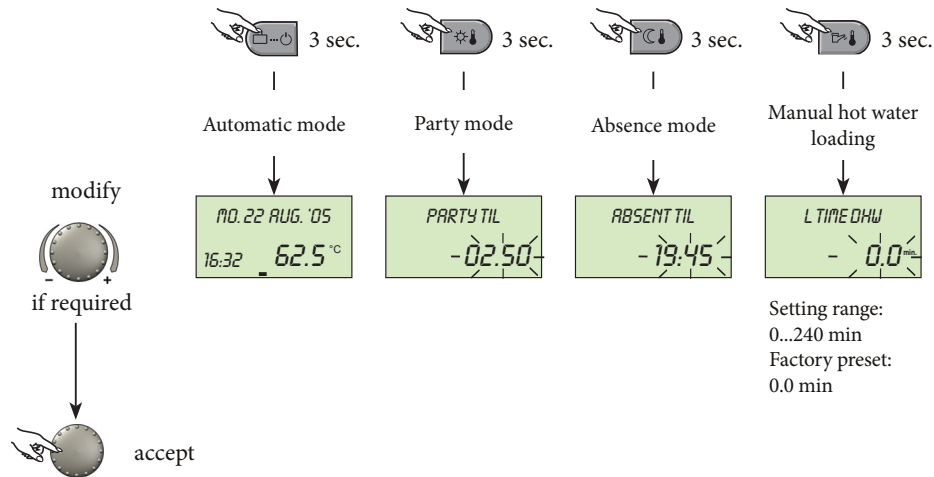
Select: Pressing the operational mode selection button, the previously set mode appears flashing. The other operational modes can be selected and activated with the knob according to the following scheme.



Functions of operational modes.

<p>Plant off during holiday</p>	<p>Interrupt heating operation</p>	<p>Extend heating operation</p>	<p>Heating operation via timer</p>	<p>Domestic hot water only</p>	<p>Permanent heating operation</p>	<p>Permanent red. heating operation</p>	<p>Plant off frost protection</p>
							
<p>Setting range: Actual date...actual date + 250 days.</p> <p>Return to the previously selected operational mode at 0.00 o'clock of the set return date. Hot water operation is set to frost protection.</p> <p>Earlier termination: Press button , select required operational mode with rotary-push button and press again to activate.</p>	<p>Setting range: P1: Heating operation is interrupted until next switching-on time of current operating time program (see level TIME PROGRAMS).</p> <p>0.5 ... 24h: Heating operation is interrupted until set time of return.</p> <p>Earlier termination: Press button , select required operational mode with rotary-push button and press again to activate.</p>	<p>Setting range: P1: Heating operation is continued until next switching-on time of current operating time program (see level TIME PROGRAMS).</p> <p>0.5 ... 24h: Heating operation is continued until end of party.</p> <p>Earlier termination: Press button , select required operational mode with rotary-push button and press again to activate</p>	<p>Operating times: (see level TIME PROGRAMS).</p> <p>Heating and domestic hot water operation automatically according to settings of temperature values (see Temperature settings) and selected operating times program.</p> <p>Programming of individual operating times see level TIME PROGRAMS).</p>	<p>Operating times: (see level TIME PROGRAMS)</p> <p>Only hot water operation according to settings of hot water temperature (see TEMPERATURE SETTINGS) and selected operating times program.</p> <p>The heating operation is interrupted and frost protected.</p> <p>Programming of individual operating times see level TIME PROGRAMS).</p>	<p>Permanent heating and reduced hot water operation round the clock according to the settings of daytime room temperature and domestic hot water temperature (see TEMPERATURE SETTINGS)</p>	<p>Permanent reduced heating and reduced hot water operation round the clock according to the settings of set back temperature (see TEMPERATURE SETTINGS), reduced heating mode (see level UNMIXED CIRCUIT) and hot water economic temperature (see level DHW).</p>	<p>Heating and hot water plant completely switched off except for frost protection mode.</p>

Quick operational mode selection.



Short-time operational modes

Frequently used operating modes such as PARTY or ABSENT or reloading the hot water tank during set back mode can be selected quickly according to the left scheme.

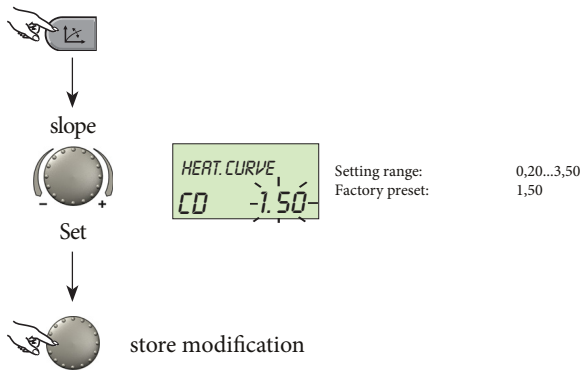
Direct automatic mode

Pressing button for approx. 3 seconds activates the automatic mode via timer inevitably. Functions and setting range see Operational mode selection for heating and hot water - Function of operational modes.

Manual hot water loading

To activate manual hot water loading outdoor of operation times the button has to be pressed for about 3 seconds. This turns on hot water preparation at any time for a period which may to be adjusted with the rotary pushbutton between 0 ...240 minutes. Pushing the rotary pushbutton activates loading. Afterwards the controller returns to program operation. At adjustment 0.0 the loading is independent of any time period. The tank will be loaded up to the set DHW-temperature value once.

Setting the heating characteristics (heating curve).



Note: The heating slope should be modified only in small steps and left for a while until steady condition can be obtained.
Changes to the slope should be made in intervals of 0.1 every 1 or 2 days.

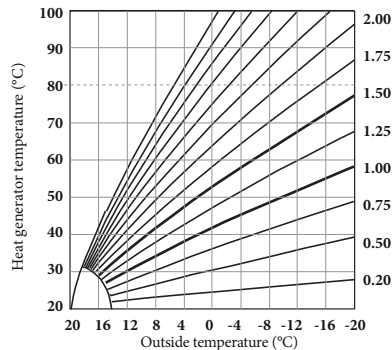



This button regulates the heating characteristics of each heating circuit in relation to outside temperature.

The adjustment is independent of the system and shows the relation between outside temperature and max. heating temperature.

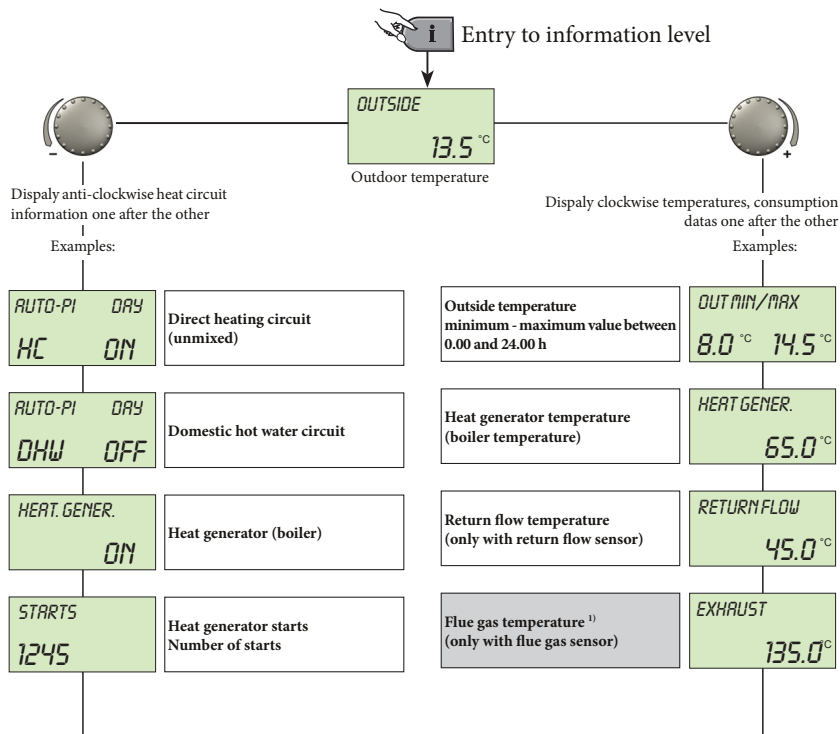
The slope sets the change of the max. heating temperature, if the outside temperature changes for 1 °C.

Diagram of heating curves



Re-entry into the standard display is done pressing the button  again or automatically after approx. 60 seconds.

System information.



This button displays all plant temperatures and states of all circuits. The information can be requested according to the direction with the rotary-push button..

Turning rotary-push button clockwise:

displays from all plant-specific temperatures:

- meter readings such as consumption data etc.
- the actual values and the nominal values (pressing rotary-push button).

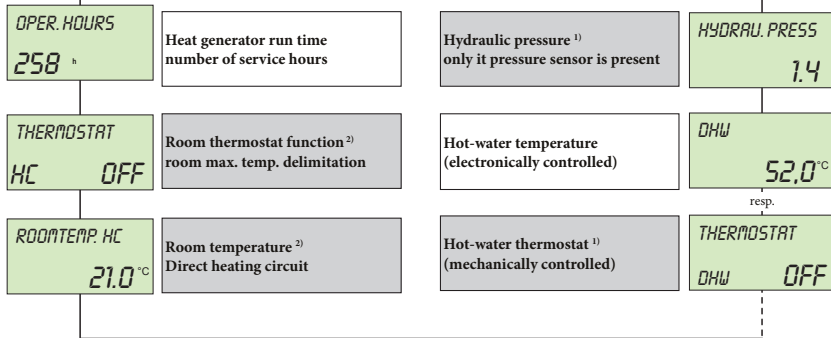
Turning rotary-push button anti-clockwise:

displays from direct heating circuit resp. DHW circuit:

- operational mode (holiday, absence, party, auto etc.).
- timer programm P1(P2 and P3 only when released).
- heating mode (daytime-, reduced-, ECO-mode).
- identification (direct circuit HC, hot water circuit DHW).
- status of heating- and DHW charging pump (on, off).

shows of boiler:

- operating status (on, off).
- number of service hours.
- number of starts.



shows of heat generator, boiler etc.:

- operating status (ON, OFF).

shows, if room sensor is activated:

- room thermostat function (heating ON, OFF).
- current room temperature.

shows, if pressure sensor is present:

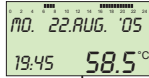
- water pressure.

¹⁾ display dependent on the type of heat generator.

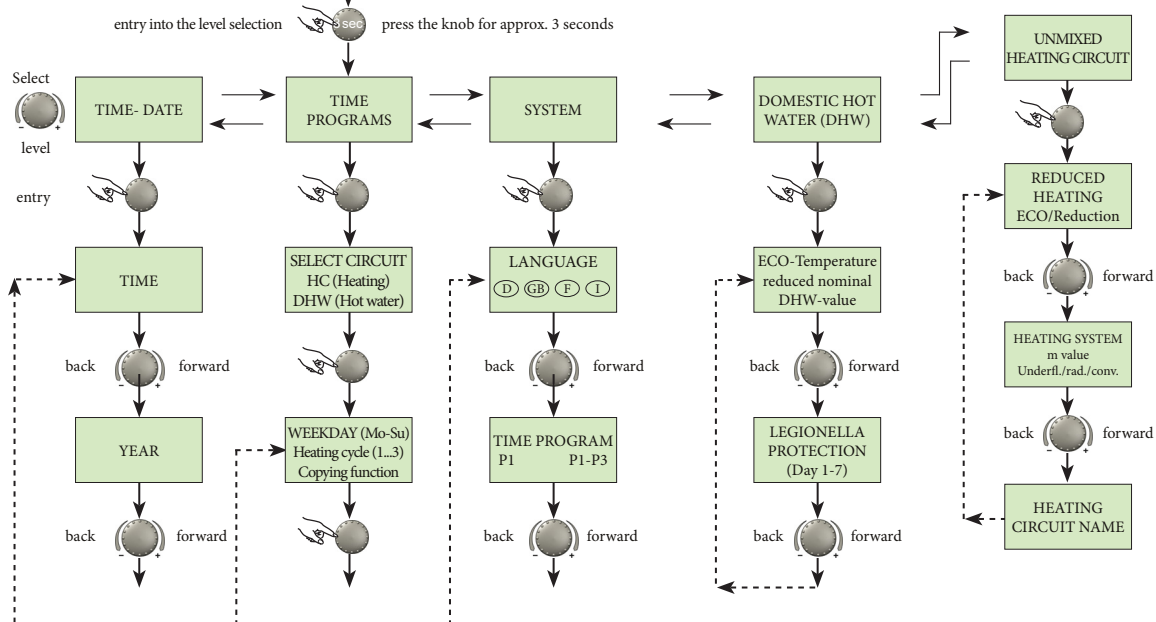
²⁾ will be displayed only if the room sensor was activated before.

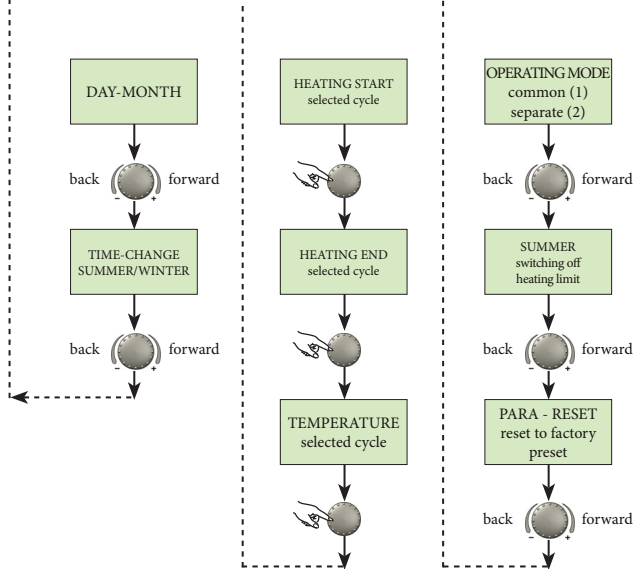
PROGRAMMING LEVEL - LEVEL SUMMARY.

Standard display
(Example: Operational mode
automatic)



Schematic block diagram





Selection and modification of parameters and setting values.

Entering into the programming level, principally the OPERATING-TIMES level appears at first.

All other levels, such as:


- SYSTEM.
- DOMESTIC HOT WATER CIRCUIT.
- DIRECT HEATING CIRCUIT.
- DATE - TIME.

Can be selected directly via knob.

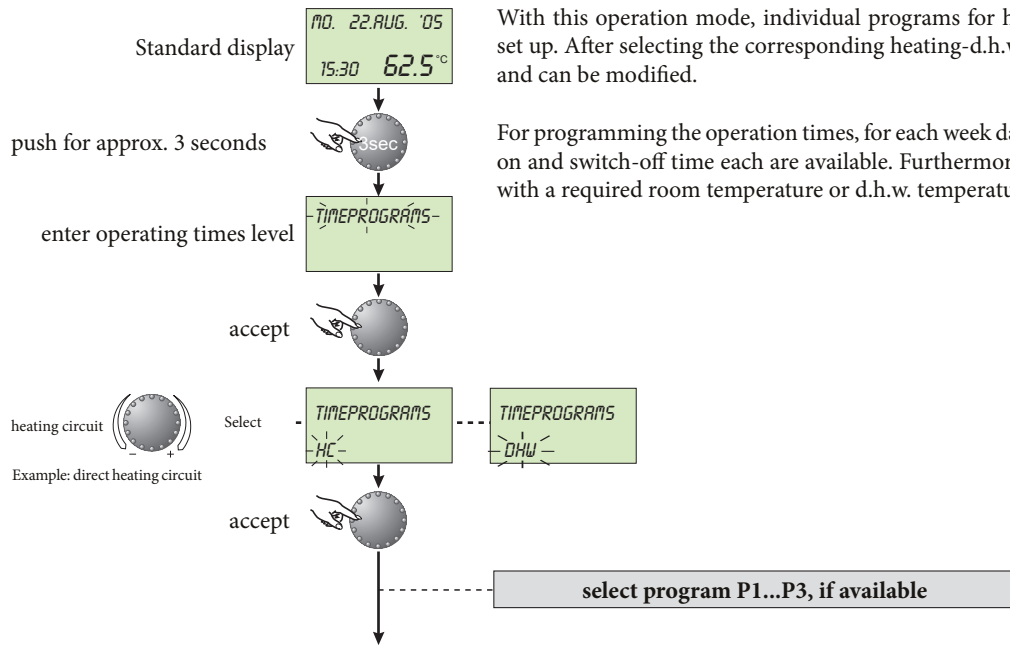
By pressing the knob, the selected flashing level is activated; the first value or resp. parameter appears flashing.

If necessary, it can be modified via the knob and stored by a following touch onto the knob.

If necessary, the other parameters can be treated in the same way.


Re-entry into the level selection is done via the info button , re-entry into the standard display via the program-selection button  or automatically after approx. 60 seconds.

Programming of operating times.

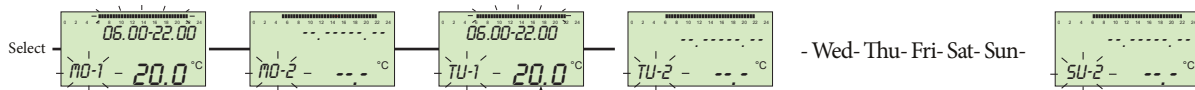


With this operation mode, individual programs for heating and domestic hot water mode can be set up. After selecting the corresponding heating-d.h.w. circuit, the standard program (P1) is called and can be modified.


For programming the operation times, for each week day maximum 3 heating cycles with one switch-on and switch-off time each are available. Furthermore, each heating-d.h.w. cycle can be combined with a required room temperature or d.h.w. temperature for the duration of the cycle.

day and cycle 

Example: tuesday - cycle 1



accept 


switch-on time 

modify

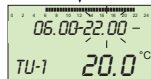


setting range: 0.00...24.00 h

accept 


switch-off time 

modify

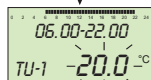


setting range: 0.00...24.00 h

accept 

temperature 

modify





for heating circuit: room temperature
setting range: 5.0...30.0 °C
for d.h.w. circuit: hot-water temperature
setting range: 10.0...80.0 °C (or DHW-max)

accept 

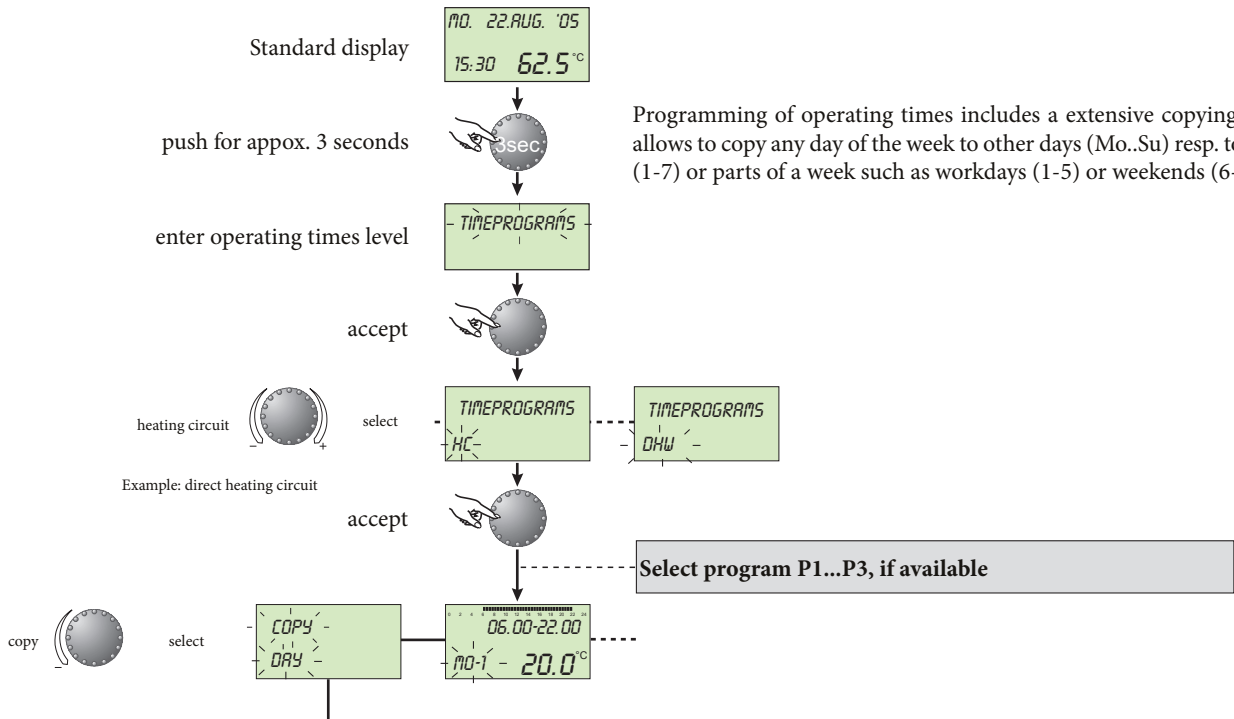
- Wed- Thu- Fri- Sat- Sun-

Note: The 3rd heating cycle is skipped if the 2nd heating cycle does not include any operating times!

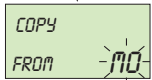
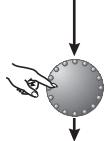
Modify - Exit :

Confirm selected flashing value by pressing the knob. Then set the new required value via knob and take over by pressing it again. Re-entry into the former step is done by pressing the button , exit into the standard display via the button  or automatically after approx. 60 seconds.

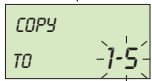
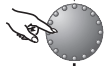
Copying operating times.



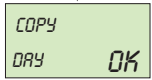
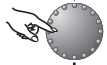
Programming of operating times includes an extensive copying function which allows to copy any day of the week to other days (Mo..Su) resp. to the whole week (1-7) or parts of a week such as workdays (1-5) or weekends (6-7).



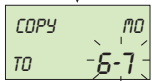
Setting range:
Monday (MO)...Sunday (SU)



Setting range:
days (MO...SU), whole week (1-7)
working days (1-5), week-end (6-7)



source and destination are identical



if necessary select and take over further destina-
tions in the same way.

etc.

day to copy
Example: Monday



accept

First selection
Example: Monday
to Friday





copy

confirmation

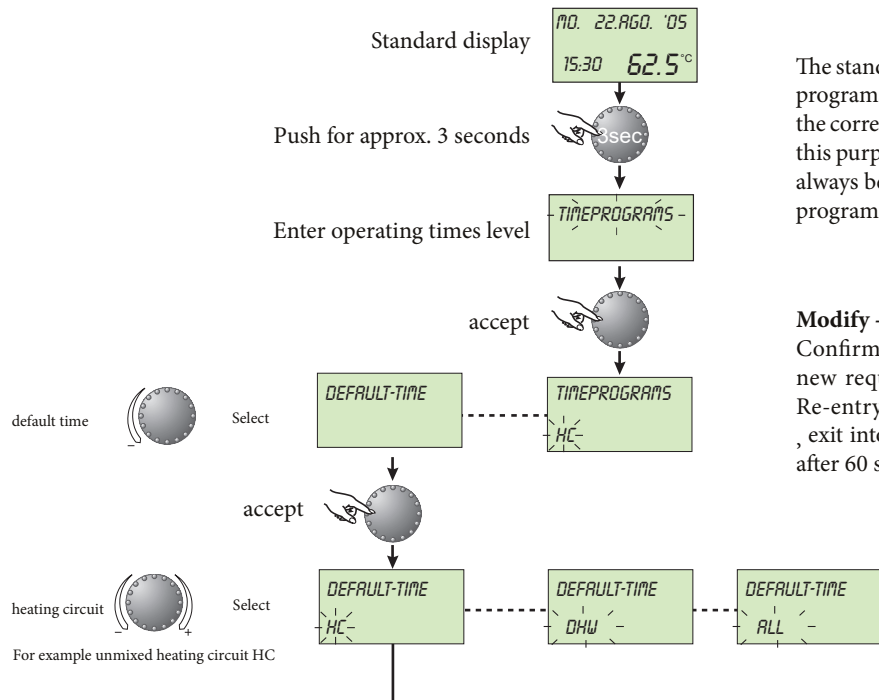
next destination
Example: Saturday
and Sunday



Modify - exit:



Confirm selected flashing value by pressing the knob. Then set the new required value via knob by pressing it again. Re-entry into the former step by pressing the button , exit into the standard display via the button  or automatically after approx 60 seconds.

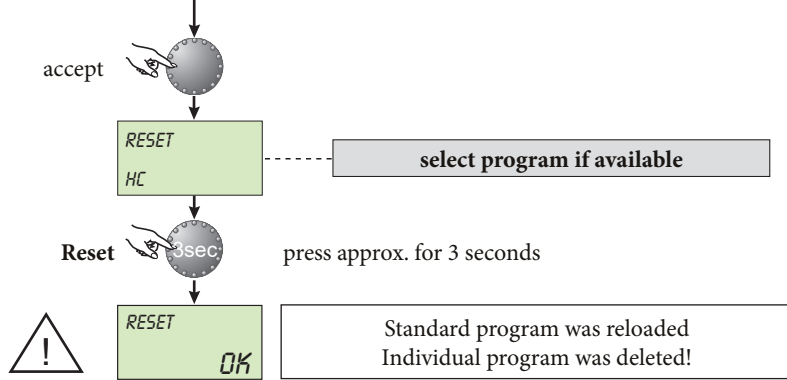
Reloading of standard time programs: deleting of individual operating-times programs.



The standard programs do not get lost by overwriting with individual programs. Individual programs however are cancelled at a later call of the corresponding standard programs and have to be set up again. For this purpose individual switching-on and switching-off times should always be noted (see level TIME PROGRAMS - table for individual programs).

Modify - exit:

Confirm selected flashing value by pressing the knob. Then set the new required value via knob and take over by pressing it again. Re-entry into the former step is done by pressing the button , exit into the standard display via the button  or automatically after 60 seconds.



Standard operating times programs are the following:

Standard operating times program P1

Circuit	Day	Heating from-till
Unmixed heating circuits (HC)	Mo-Su	06.00 - 22.00
Domestic hot water (DHW)	Mo-Su	05.00 - 22.00

Standard operating times program P2
(see level SYSTEM)

Circuit	Day	Heating from-till
Unmixed heating circuits (HC)	Mo-Th	06.00-08.00 16.00-22.0
	Fr	06.00-08.00 13.00-22.00
	Sa-Su	07.00-23.00
Domestic hot water (DHW)	Mo-Th	05.00-08.00 15.30-22.0
	Fr	05.00-08.00 12.30-22.00
	Sa-Su	06.00-23.00

Standard operating times program P3
(see level SYSTEM)

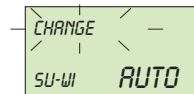
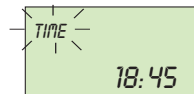
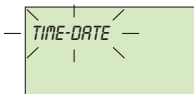
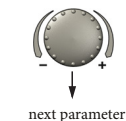
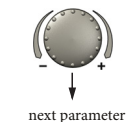
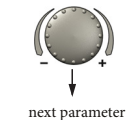
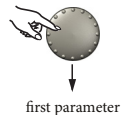
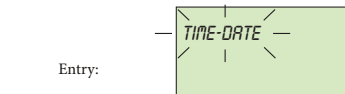
Circuit	Day	Heating from-till
Unmixed heating circuits (HC)	Mo-Fr	07.00-18.00
	Sa-Su	reduced
Domestic hot water (DHW)	Mo-Fr	06.00-18.00
	Sa-Su	reduced

Table for individual operating times and programs

Unmixed heating circuit (HC)		Operating times program P1						Operating times program P2						Operating times program P3					
		1 st cycle		2 nd cycle		3 rd cycle		1 st cycle		2 nd cycle		3 rd cycle		1 st cycle		2 nd cycle		3 rd cycle	
		from	till	from	till	from	till	from	till	from	till	from	till	from	till	from	till	from	till
Day																			
Mon																			
Tue																			
Wed																			
Thu																			
Fri																			
Sat																			
Sun																			

Domestic hot-water circuit (DHW)		1 st cycle		2 nd cycle		3 rd cycle		1 st cycle		2 nd cycle		3 rd cycle		1 st cycle		2 nd cycle		3 rd cycle	
		from	till	from	till	from	till	from	till	from	till	from	till	from	till	from	till	from	till
		Day																	
Mon																			
Tue																			
Wed																			
Thu																			
Fri																			
Sat																			
Sun																			

Time - date.



Current time:
setting range:
0.00 ... 24.00 h

Calendar year:
setting range:
2001 ... 2099

Calendar day-month:
setting range: 01.01 ... 31.12
weekday is set automatically

Time reset mode.
setting range:
automatic:
manual:

last Sunday in March and in October
no time reset

Entry: see Programming level - Level summary.

Exit: via button  or automatically after 60 sec..

Modify: confirm selected flashing parameter by pressing the knob. Then set the new required value via the knob and accept by pressing the knob again.

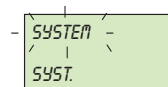
The beside standing values are factory preset and normally need not be updated.

The internal pre-programmed calendar provides an automatic time change at the yearly repeating summer- winter time reset-dates.

If required, the automatic time reset can be switched off (manual reset).

PARAMETERS CONFIGURATION.

Setting of system parameters (for the technician).



This level includes general delimiting parameters and options referring to the corresponding heating system.

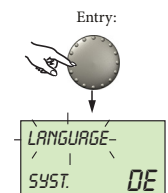
Entry: see Programming level - Level summary.

Exit: via button  or automatically after 60 sec..

Modify: confirm selected flashing parameter by pressing the knob. Then set the new required value via the knob and accept by pressing the knob again.

Application: use of the instrument at the corresponding language area.

Application: shift work, different programs for summer, transition period, winter etc.



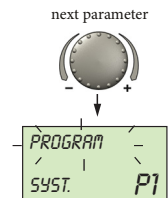
Language choice.

Setting range:

DE = German	GB = English	FR = French
IT = Italian	NL = Dutch	ES = Spanish
PT = Portuguese	HU = Hungarian	CZ = Czech
PL = Polish	RO = Romanian	RU = Russian
TR = Turkish	S = Swedish	N = Norwegian

factory preset: DE

All information appearing on the display are available in a number of languages. After entry as first parameter appears the language selection. The required language can be selected according to the above assignment.

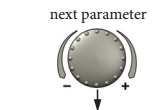


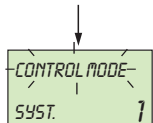
Operating times program

setting range: P1, P1-P3

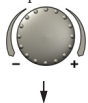
standard: P1

This parameter specifies the number of the cleared time programs. With the regulation P1 only one operating times program is available. With the setting value P1-P3 all three programs are cleared and taken into consideration for programming operating times.






next parameter



Control mode

setting range: 1 = common mode 2 = separated mode
 factory preset: 1

Common control mode:

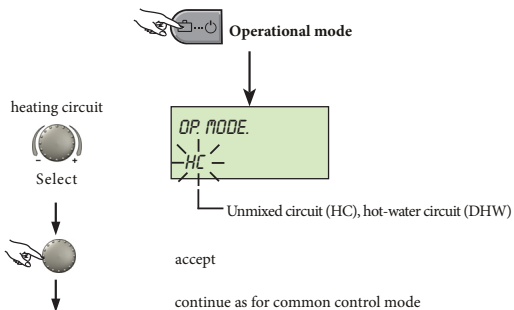
The selected operational mode (via button ) (for Holiday, Absence, Party, Automatic etc.) applies to the heating circuit and to the hot-water circuit together.

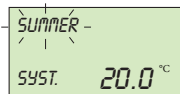
Separated control mode:

Each heating circuit can be assigned with its own operational mode and temperature settings. With separated mode all regulations refer also only to the previously selected heating circuit as shown below.

Application: objects with uniform seizure character (Onefamily houses etc).

Application: objects with different use of heating and hotwater (for example heating operation in Holiday mode, hot-water permanently in reduced mode).





Summer switching-off.

setting range: OFF, 10.0 to 30,0 °C.

factory preset: 20.0 °C.

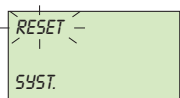
This parameter specifies the heating delimiting value regarding the average resp. current outdoor temperature and puts the heating plant automatically out of service as soon as the outdoor temperature exceeds the set heating delimiting value.

During summer switch-off the pump of the heating circuit is activated each day for approx. 10 seconds to protect it against corrosion.

With setting OFF the summer switch-off is not effective.

Hot water preparation is not affected by summer switch-off.

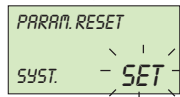
next parameter



Parameter-reset.

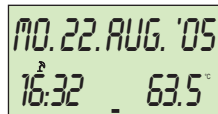
This function resets all individually entered values in the programming level to factory preset.

Exception: time-date, operating times.



Reset: press rotary-push button for approx. 5 sec. while indication SET is flashing, until standard display appears.

Important: the active summer switch-off appears on the standard display with a sunshade symbol.



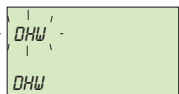
Summer switch-off activated

Application: all objects which do not require a heating operation during summertime.

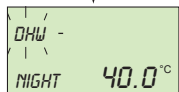
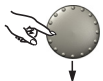
Important: reset may only be executed if all individually entered values shall be replaced by the factory preset values!



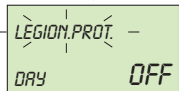
Domestic hot water parameters setting.



Entry:



next parameter



This level includes the necessary parameters for programming the hot water economic temperature and the legionella protection.

Hot water economic temperature.

Setting range: 10.0 °C up to the required hot water temperature.
Factory preset: 40 °C.

This parameter determines the amount of the reduced hot-water temperature outside the hot-water operating times (between the hot-water cycles) as well as in the operational mode ABSENCE for the duration of absence

Legionella protection (day).

Setting range: OFF, MO...SU, ALL.
Factory preset: OFF.

The legionella protection serves to avoid a legionella infestation inside the hot-water tank and is activated on the selected weekday (Mon to Sun) or every day at 2.00 o'clock. If the hot-water temperature should drop below 65 °C, the tank is reloaded.

With setting OFF this function is not effective.

Entry: see Programming level - Level summary.

Exit: via button  or automatically after 60 sec..

Modify: confirm selected flashing parameter by pressing the rotary-push button. Then set the new required value via and accept by pressing the rotarypush button again. If necessary, correct the following parameters in the same way.

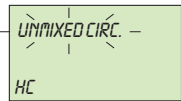
Application: base temperature inside the hot-water tank in order to avoid a cooling down of the tank.

Important: this parameter is skipped if a hot-water thermostat is used instead of an electronic hot-water sensor!

Application: other legionella protection times can be regulated exclusively by the heating plant specialist.

Important: danger of scalding! Use thermostatic mixing valve on DHW outlet!

Heating circuits parameters setting (direct circuit).



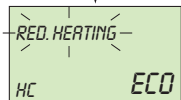
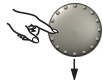
This level includes the parameters required for programming the reduced heating mode and the adaptation to the corresponding heating system.

Entry: see Programming level - Level summary.

Exit: via button  or automatically after 60 sec..

Modify: confirm selected flashing parameter by pressing the rotary-push button. Then set the new required value via and accept by pressing the rotary push button again. If necessary, correct the following parameters in the same way.

Entry:



Reduced heating mode.

setting range: ECO, RED

factory preset: ECO

During the reduced operation the following modes can be selected:

ECO mode: At outdoor temperatures above the set plant frost protection the heating circuit is switched off completely. At temperatures below frost protection the heating circuit is controlled with reduced heating characteristic according to the required reduced temperature (see TEMPERATURE SETTING).

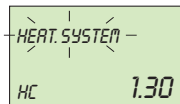
Application: objects with high insulation values.

RED mode: During the reduced mode the heating circuit pump remains activated. The heating circuit is controlled according to the reduced heating characteristic, the temperature does not drop below the set minimum temperature value.

Application: objects with high insulation values.

next parameter





Adaptation to the heating system (value m).

setting range: 1,00 to 10,0

factory preset: 1,30

This parameter refers to the type of the heating system and has to be adapted to the power characteristic of the corresponding consumer (underfloor systems, radiator, convector). The setting value specifies the curvature of the heating curve of the selected weather dependent heating circuit and compensates the system-related efficiency losses at lower temperatures by a progressive heating curve in conformity with the adjustment.



Heating circuit name

This is used to assign an individual, 5 character, abbreviated name to each heating circuit.

No individual name is assigned if the setting “empty” is used. The default abbreviated name appears.

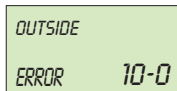
- The character that blinks can be altered using the rotary knob according to the code number and accepted by pressing the knob once. The remaining characters can be altered in the same way.
- The individual heating circuit name display appears:
 - in the menu;
 - in the parameter tree;
 - in the info level.

Application:

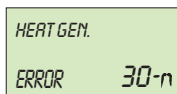
the following setting values are recommended for the below-mentioned applications:

Setting value	Application
1.00 . . . 1.10	Heating curve for underfloor heating systems or other static heating surfaces
1.30 . . . 2.20	Normal standard heating curves for radiators
3.00 . . . 4.00	Heating curve for convectors
4.00 . . . 10.0	Special heating curve for ventilators with high starting temperatures

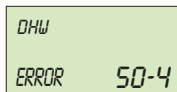
ERROR MESSAGES.



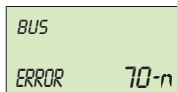
Example for error messages “sensor” (short or open circuit)
error code 10...20



Example for error messages “boiler” (control status”) (flue gas temperature exceeded)
error code 30...40 ¹⁾



Example for logical error messages (control functions):
error code 50...60



Example for error messages “data bus” (address error)
error code 70 ...

The instrument is equipped with an extensive error diagnostic features. The error displayed takes priority over other displays and varies dependent on the model in question.

For alarm messages from burner control (ERROR Xn:m) the error codes in the corresponding installation manuals have to be considered.

Note: Alarm messages only appear alternating with the standard display.



In case of error messages the heating specialist has to be informed!

¹⁾ For these alarm messages the error codes of the heat generator in the corresponding installation manuals have to be considered.

PRODUCT SPECIFICATIONS.

In accordance with Regulation 811/2013 the temperature control device class is:

Class	Contribution to the environmental heating seasonal energy efficiency	Description
V	+3%	Modulating Remote Control.
VI	+4%	Modulating Remote Control coupled to outer sensor.

TECHNICAL SPECIFICATION.

Supply voltage:	Via data bus (DC-safety voltage by EN 60730)
Power consumption:	300 mW
Bus interface:	T2B
Ambient temperature:	0...60 °C
Storage temperature:	-25...60 °C
Protection type acc. to EN 60529:	IP 30
Protection class acc. to EN 60730:	III
Approval according to:	VDE 60730
Casing dimensions (BxHxD):	90 x 138 x 28 mm
Casing material:	ABS, antistatic
Electrical connections:	2-wire mode with plugable connection
Recommended cable:	J-Y(St)Y 2 x 2 x 0.6 mm ²
Max. length of cable:	50 m
Data and timer back up:	Min. 5 years from date of delivery
Accuracy of the internal clock:	± 2s/day
Weight:	Approx. 150 g

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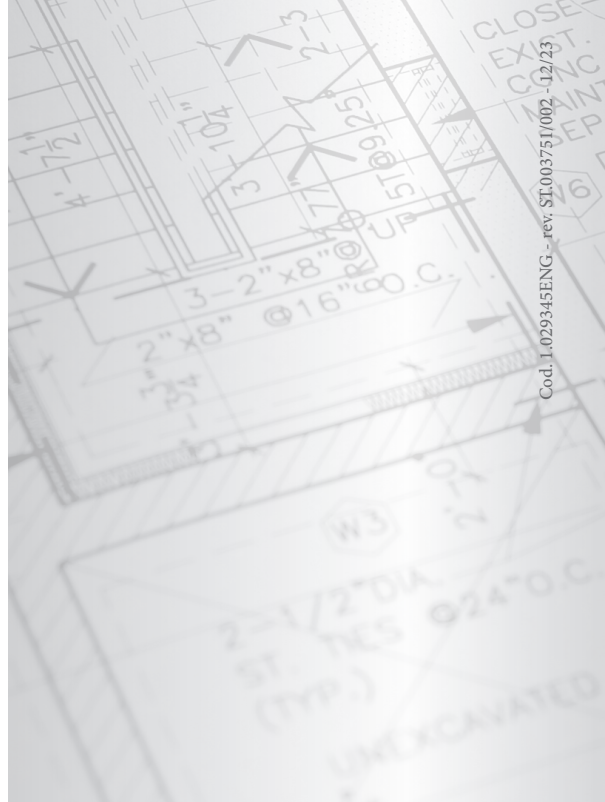
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Certified company ISO 9001



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