Installation manual ATAG WiZe programmable room thermostat

1. INTRODUCTION

This information is exclusively intended for the fitter installing the programmable room thermostat and provides the basic settings required as necessary for the installation.
For assembly instructions, user information and technical specifications: refer to ATAG WiZe User Manual and the boiler installation manual for the connections.

2. POSSIBLE APPLICATIONS OF WIZE THERMOSTAT

Possible application:	Operation:	Advantages:	Installation settings menu:
A. As room thermostat (without timer function)	Manual	Using the arrow key the required temperature can be set at any time.	Operating mode.....1 (standard) Heating curve.....n.a. Room compensation..n.a.
B. As a programmable room thermostat	Automatic	The required times and room temperature can be set automatically for every day.	Operating mode.....1 (standard) Heating curve.....n.a. Room compensation..n.a.
C. As a 100% weather dependent controller (without room thermostat function)	Manual or automatic	Automatically the required room temperature, every day. Using the automatic thermostatic radiator valves, a different temperature can be set for each room.	Operating mode.....2 (see 3.5) Heating curve.....0-3 (see 3.1) Room compensation..0-20 (see 5.2)

2.1 Explanation of possible applications

A. Explanation when used as a room thermostat (without timer)
This thermostat can be used as an “ordinary” room thermostat, i.e. without timer program. For this purpose, nothing needs to be changed in the installation menu. A setting has to be set in the user menu: refer to chapter 3 of the user manual.

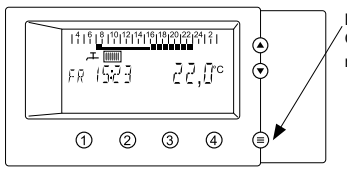
B. Explanation when used as an automatic programmable room thermostat
This thermostat has a timer function which can be used to control the central heating automatically. For this purpose, no settings have to be set in the installation menu. The manual describes how the timer program can be set as required. Refer to chapter 4 of the user manual

C. Explanation when used as a 100% weather dependent controller
The WiZe thermostat can be set to work as a 100% weather dependent controller. This means that the room in which the thermostat is located is no longer imperative for temperature control. Together with the information from the outside temperature, a central heating (CH) flow temperature is worked out which is sufficient to heat the house. Thermostat valves on the radiators allow an individual temperature setting for each room.
Required installation parts:
a. Outdoor sensor (boiler-specific) connected to a boiler (refer to boiler’s installation instructions). Mounting on north – north/east facade of the house. Prevent outside influences such as snow, ventilation air or chimney heat.
b. Thermostatic radiator valves on the radiators in the house to individually control the rooms.
c. If ALL radiators are fitted with thermostatic radiator valves, the installation MUST be fitted with an automatic bypass valve. Refer to to boiler installation manual.

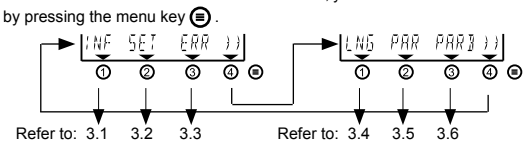
Comment: If an outside sensor is connected to the boiler and the WiZe thermostat is NOT set as a 100% weather dependent regulator, then only the outside temperature is displayed and readable on the thermostat. It is ignored by the controller. Therefore, weather dependent regulation is not possible when room compensation is switched on.

Refer to chapter 4 for setting the 100% weather dependent control.

3. Overview of installation menu



By pressing the menu key ≡ for at least 10 seconds you enter the INSTALLATION MENU.
Once the INSTALLATION MENU has been activated, you can return from various other menus to this menu by pressing the menu key ≡ .



Press the menu key ≡ for at least 10 seconds to return to the standard display or do not press any key for 2 minutes.

When an arrow symbol appears alongside a key in the display, the key concerned acts as a “browser”.

3.1 INF= INFORMATION MENU

Reading data from the boiler and room thermostat

You browse through the menu as follows:
>> = next information
<< = previous information

OUTSIDE TMP	= Outside temperature
PRESSURE	= Water pressure in the boiler installation
SUPPLY TEMP	= Boiler water flow temperature
BURNER	= Burner capacity (0% - 100% = off – low load – full load)
DHW TEMP	= Domestic hot water temperature
DHW FLOW	= Not applicable
DHW STATUS	= 1 = boiler in operation for DHW (or waiting period afterwards and in Comfort setting) 0 = not operational for DHW
RETURN TMP	= Boiler return temperature
ROOM TEMP	= Current room temperature (measured)
ROOM SETP	= Room temperature set (as required)
CONTROL SET	= Required water flow temperature
ID	= Identification of room thermostat
VERSION	= Version of room thermostat

3.2 SET = SETTINGS MENU

Settings for room thermostat and boiler

Settings can be changed using the arrow keys.
As soon as the displayed value changes it becomes active immediately.
>> = next setting
<< = previous setting

Refer to chapter 4 for setting the 100% weather dependent control.

			Standard	Range
OTC CURVE	=	curve setting of 100% weather dependent control (becomes active on control selection 2)	2,0	0-3***
ROOM COMP	=	On/off switch of room temperature compensation when on WD (Weather Dependent) regulation 0 = OFF / 1-20 = ON (only becomes active when control selection = 2) DO NOT CHANGE	0	0-20*
OPERATING M	=	1 = Room temperature control set / 2 = 100% weather dependent control set (WD)	1	1-2*
FROST PROT	=	Frost protection: Pump on and burner on (if calculated) when outside temperature is below the set value	5	-20/20*
SUMMER	=	Boiler off, if outside temperature is above the set value	20	3-50*
HOUR CHOICE	=	1 = 24 hours (time on the display) / 2 = 12.00 AM (when set to 0-12 hrs) and PM (when set 13-24 hrs)	1	1-2*
DHW PROGRAM	=	Economy/Comfort sets DHW temperature retention (n.a. on the ATAG Q-Series) 1 = No timer program (but ON, OFF or Timer possible via DHW menu) 2 = Separate timer program can be set. Refer to User Manual H.5.2 for additional information. 3 = Switches on, in accordance with CH timer program (Economy on T1 and Comfort on T2 and T3) Select “AUT” from the DHW menu to activate the function. Refer to H.5.2	1	1-3*
PRE HEAT	=	Optimizing switch-on in the morning 1 = teach mode, CH switches on earlier (increase in °C/hour variable) 2 = fixed increase of 3°C/hour 3 = OFF	3	1-3*
MIN SUPPLY	=	DO NOT CHANGE	0	0-90*
MAX SUPPLY	=	Max. CH flow temperature (adopted by boiler the 1st time): RECOMMENDATION: Do not change)	85	0-90*
		In the case of a normal timer program: / In the case of 100% weather dependent regulation:		
ROOM T1	=	1st night temperature / Eco- temperature WD (setting recommendation: Don’t change)	15, 0	7-35**
ROOM T2	=	2nd day temperature / Night temperature on WD (setting recommendation: 11°C).	20, 0	7-35**
ROOM T3	=	3rd day temperature / Day temperature when on WD (setting recommendation: 23°C)	21, 0	7-35**
DHW SETP	=	DHW setpoint of boiler (Adopted by boiler the 1st time: RECOMMENDATION: Do not change)	60	0-70**
WATERFILL	=	DO NOT CHANGE	1	1-3*
ROOM CORR	=	Adjusting room temperature display E.g. When 21,5°C on the display and Roomcorrection = -0,5 the display shows 21,0°C	0,0	-2/+2***
FACTORY SET	=	Resets the room thermostat to factory settings	0	0-1*

* range adjustable by 1 / ** range adjustable by 0,5 / *** range adjustable by 0,1.

3.3 ERR = ERROR REPORT MENU

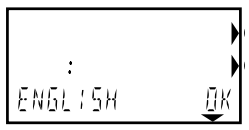
Reads the last 10 error reports of the boiler

When text reads “ NO ERRORS”, no error codes were stored
When text reads “NOT AVAILABLE”, not available or wait until details have been sent

>> = previous error

Only the number is shown e.g. in the case of E02: fault 2)
Refer to technical documentation of boiler for explanation of error codes.

1 = last occurred error 2 = last but one occurred error 3 = 2nd last occurred error etc.



3.4 LNG = LANGUAGE MENU

Language setting of display

Apart from English, the arrow keys can also be used to select Italian or Turkish
Press the (OK) key to confirm the setting
By pressing the menu key, the visible language setting will be selected.

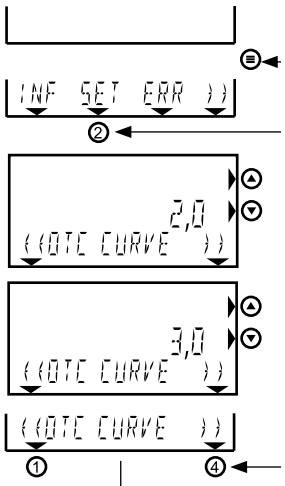
3.5 PAR = BOILER PARAMETER MENU

This function is not available.

3.6 PARB = PARAMETER MENU

This function is not available.

4. SETTING THE 100% WEATHER DEPENDENT CONTROL



4.1. Set the correct heating curve.

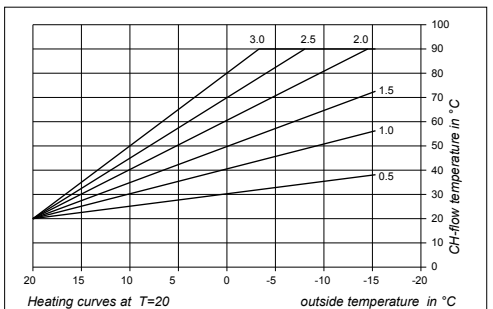
Press ≡ (MENU)for 10 seconds; you now enter the installation menu.

Press ② (SET)

You will see this display

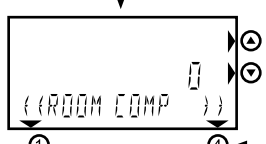
Use the arrow key ▲ or ▼ to set the correct heating curve. Refer to heating curve graph (adjustment of 0,1 can be made, 2,0 is factory setting). The value will be set immediately.

Press ④ (>>) to continue.



Select the correct heating curve:
Radiators and/or convectors 90/70°C.....Heating curve 3,0
Well insulated house + large surfaced area radiators .....Heating curve 2,0
Radiators + additional under floor heating.....Heating curve 2,5
Low temperature heating.....Heating curve 1,5

The setting depends on the CH installation, draughtiness of the house and required heating up speed.



4.2. Set (if required) the room temperature compensation

Use the arrow keys ▲ or ▼ set the required setting for room temperature compensation.
Refer alongside for recommendation. (adjust by 1). The value will be set immediately.

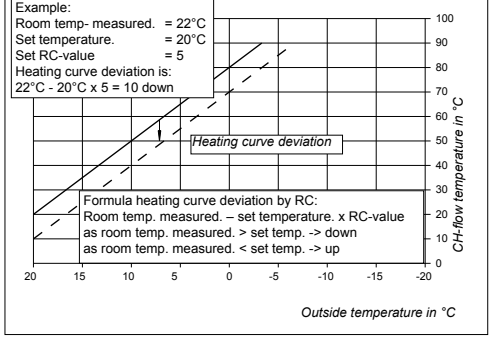
Press ④ (>>) to continue.

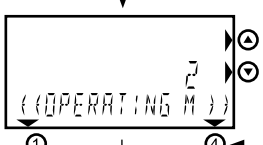
Influence of room temperature compensation (=RC) on the heating curve.
Set RC-value: 0 = RC OFF (factory setting)
1 - 20 = RC ON
The higher the value, the higher the influence.

The room temperature corrects the CH flow temperature in the case of, amongst others, weather influences (e.g. sun or cold wind) and switch-on optimisation.
ATTENTION: the room in which the thermostat is located sets the norm for all other rooms.

Recommendation:
. With varying temperatures in different rooms: RC=0
. With roughly identical temperatures in different rooms: RC=1 - 20
Do not select too high a value to prevent control instability!

Example:
Room temp- measured. = 22°C
Set temperature. = 20°C
Set RC-value = 5
Heating curve deviation is:
22°C - 20°C x 5 = 10 down

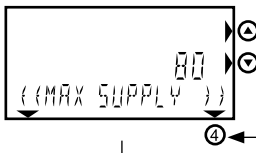




4.3. Set the weather dependent control

Use the arrow key ▲ or ▼ to change the value from 1 to 2.
(2 = WD- control set).
Weather dependent control activated immediately.

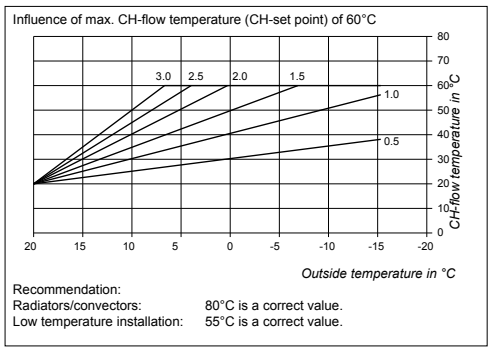
Press ④ (>>) a number of times until you see MAX SUPPLY.



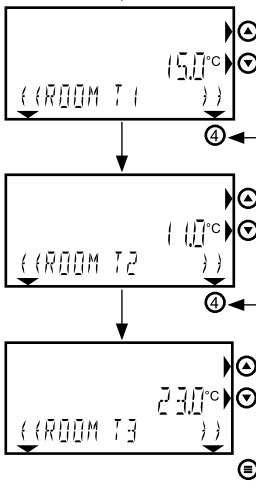
4.4. Set (if required) the max. CH flow temperature

Use the arrow keys ▲ or ▼ to set the required maximum CH flow temperature.
Refer alongside for recommendation.

Press ④ (>>)



Recommendation:
Radiators/convectors: 80°C is a correct value.
Low temperature installation: 55°C is a correct value.



4.5. Set the required heating curve deviations (base point adjustment with regard to T1, T2 and T3)

(This is a deviation in respect of T2)
ATTENTION! This setting and setting 4.2 enhance one another.

Use the arrow keys ▲ or ▼ to set the required value in (T1 = Eco-temperature)
Recommendation: Do not change (15°C).

Press ④ (>>)

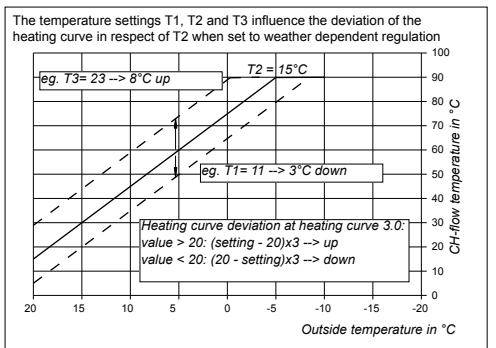
Use the arrow keys ▲ or ▼ to set the required value in (T2 = night temperature)
Recommendation: 11°C.

Press ④ (>>)

Use the arrow keys ▲ or ▼ to set the required value in (T3 = day temperature)
Recommendation: 23°C)

Press ≡ (MENU) for 10 seconds and the normal display returns.

The temperature settings T1, T2 and T3 influence the deviation of the heating curve in respect of T2 when set to weather dependent regulation



T1, T2 and T3 can also be adjusted in the user menu.

The 100% weather dependent control has been set.

ATAG
www.atagheating.com

8X.51.03.00 / 03.10