

РУС

Комнатный модуль

DEU

Raumeinheit

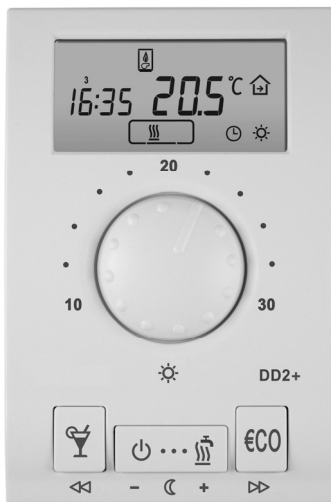
ITA

Termostato ambiente

FRE

Thermostat d'ambiance

DD2+



Комнатный модуль DD2+

РУС

Raumeinheit DD2+

DEU

Termostato ambiente DD2+

ITA

Thermostat d'ambiance DD2+

FRE

Dhgljheb jmfumkljhcklZ

	- jZahucd h_l_e		- kf_l katieZlZg		- [ZdZddmfimeylh]
	- ldlh_e		- gZkhh		- ijyfhcahglm]
	- llidhl_e		- [hce_l]k		- k heg_l qgdhee_l dlhju
	- l_ iehhcgZkhh				- j_l pbjdmeypby


jZajyl ggZylZlZj_l cdZ
 ZlZbl_l fy
 neggyl_l bpbby
 aZsblZhlazl_l jaZgby
 [ehcb]hdZ deZbZlmju
PARTY
 Knob for setting the day temperature
PARTY - day temperature mode
Stand by mode
Night temperature setting
On mode - operation according to the program timer

Baf_l jyl_l fZy tll_l fl_l Zlm jZ
 Program timer CH2
 - d. h. w. warming
 ON - active
 OFF - inactive
 Program timer CH1
 - day temperature
 - night temperature
1 - circuit 1
2 - circuit 2
ECO
 Room unit does not control the heating circuit (only by WDC and CMP25-2 controllers).
 Operation mode
 - off
 - room heating
 - cooling
 - d. h. w. warming
ECO - saving temperature mode

Picture 1


Operating mode selection

Heating activation

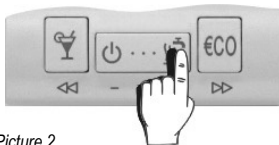
Press key  to select the requested operating mode (Picture 2). Selected operation mode is indicated on display.

 - room heating

 - room cooling



 - domestic hot water warming

- Room heating and domestic hot water warming operates according to the program timer of heating controller.
- This setting has no affect, if room unit DD2+ is connected to WDC or CMP25-2 controller and it is NOT set to control the heating circuit.

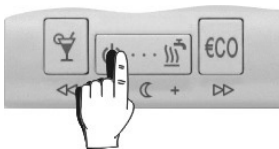


Picture 2

Stand-by

Press key  (Picture 3). On the display appears symbol .

Frost protection remains active.




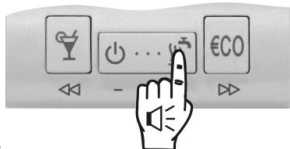
Picture 3



Frost protection temperature is 6 °C and can be changed in program group P1.3 (page 18).

Selection between heating or cooling

To switchover between heating and cooling and in reverse, hold key  for approximately 15 seconds (Picture 4a). Release key after you hear a beep. The display writes out active mode for a few seconds, *HEA*- heating or *COO*- cooling (picture 4b).



Picture 4a

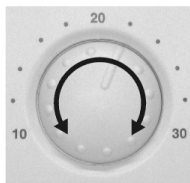


Picture 4b

Setting the day and night temperature





Day temperature

Turn knob to set the requested day temperature between 10 °C and 30 °C (Picture 5).



Picture 5

Night temperature

Hold key  for approx. 5 seconds (Picture 6a). Release key after you hear a beep. Now press key  or  to set the requested night temperature (Picture 6b). To save and quit setup, press key  once again.




Picture 6a




Picture 6b

PARTY and ECO operating mode

PARTY - day temperature operation

Press key . Use key **-** or **+** to set duration of the PARTY mode between 1 and 24 hours.


For permanent PARTY mode, select **on**.

To stop PARTY mode at anytime, press key .




The PARTY temperature increase above the day temperature is setted in parameter P1.9 (page 18).

ECO - night temperature operation

Press key . Use key **-** or **+** to set duration of the ECO mode between 1 and 24 hours.

For permanent ECO mode, select **on**.


To stop ECO mode at anytime, press key .

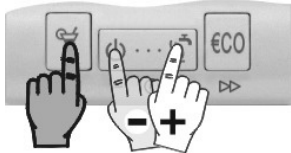


The ECO temperature reduction from the required day temperature is setted in parameter P1.2 (page 18).

Setting the accurate time*


Hours

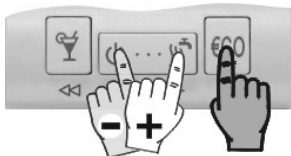
Hold key  and press key **+** or **-** to set the hours (Picture 7).



Picture 7



Minutes

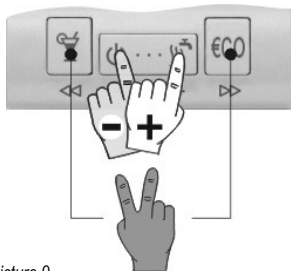
Hold key  and press key **-** or **+** to set the minutes (Picture 8).



Picture 8

Day

Hold both keys  and , then press key **-** or **+** to set the day (Picture 9). The days are marked from 1 to 7. Monday is marked as **1** and Sunday as **7**.



Picture 9






If the DD2+, by battery exchange, isn't functional for a while, the time is set to Monday, 20:00.

* When connected to PROMATIC WDC and CMP25-2 the time is automatically synchronized with the controller.

Remote control

With telephone is possible to remotely activate the day temperature operating mode. For analogue telephone line device G1-D is available.

Room unit locking


Hold key  for 15 seconds. Release the key after you hear a beep. Symbol  indicates locked room unit. To unlock the DD2+, again hold key  for 15 seconds.

Setting or modifying the parameters by locked DD2+ isn't possible or is limited.



DD2+ locking is set in service group SI.4 (page 20).



One time manual d. h. w. warming activation

Hold key  for 5 seconds. Release the key after you hear a beep.





One time manual domestic hot warming is automatically deactivated, when requested d. h. w. temperature is reached or at the latest after 1 hour.

Indication of the controlled devices on display

If the indication of controlled devices is deactivated (setting in program group P1.8), the currently controlled devices can be viewed by holding the key  and pressing the key  (Escape). All the controlled devices will appear on the display for 15 seconds.


Command to quick save and quit (Escape)

Every time you wish to quick save and quit setup, hold key  and press key . Release both keys after you hear a beep.



All modifications made, are stored. This command has no affect in program and service settings.

Battery replacement

Empty batteries are indicated with the symbol  on display. We suggest the battery replacement every 2 years. DD2+ is supplied with two alkaline batteries 1.5 V type AAA. Battery socket is inside the DD2+. To remove room unit from the wall plate, do the following. Hold room unit in height of keys and pull it towards yourself (Picture 10 - OPEN). After battery exchange, put DD2+ back on the wall plate, by doing the following. Hook DD2+ on top and push it with bottom towards the wall plate (Picture 10 - CLOSE).



Picture 10

Battery exchange should be done within 20 seconds. In other case you will have to set the accurate time again.

Display of the auxiliary sensor temperature

In normal display mode, hold key  and press key  (Escape).



If the auxiliary sensor isn't connected, this command isn't active.

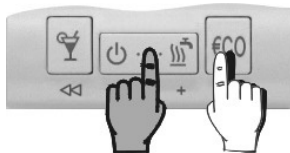
Menu

All data and parameters are joined into 4 groups:

- d1** room unit data
- P1** basic parameters
- S1** service parameters
- S3** service parameters

Menu

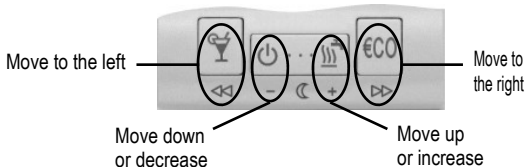
To enter menu hold key **...** and press key **ECO** (Picture 11). Release keys after you hear a beep. The display writes out first group d1.



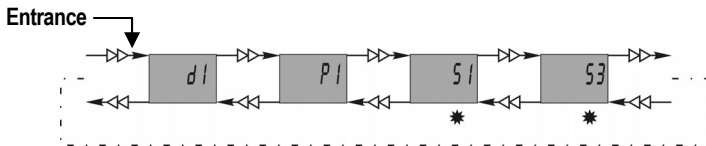
Picture 11

Menu navigation

In menu have keys new meaning, marked bellow them (Picture 12). To move between the groups press key **◀◀** to move to the left and key **▶▶** to move to the right (Picture 12). To move within the group press key **-** to move down between the lines and **+** key to move up between the lines. For your better understanding are all the lines marked. First two symbols mark the group and the third symbol successive number of the line in group (Picture 13).



Picture 12

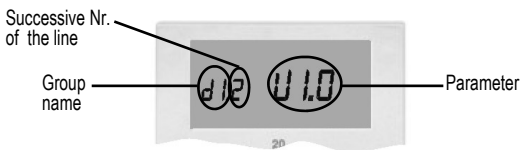


* Parameters S are by default (factory) settings locked.

Picture 13



Which data and settings are hidden is set in parameter S3.1.



Picture 14

Room unit data d1

This group is sort of DD2+ ID. In this group are information about DD2+.

The information are displayed in the following order:

- [d1.1] room unit type (DD2+)
- [d1.2] software version
- [d1.3] heating or cooling
- [d1.4] built-in temperature sensor calibration
- [d1.5] battery voltage

Basic parameters P1

Basic parameters P1 are used for the thermostat user settings. To change the selected parameter, hold key **•••** for approximately 5 seconds. Parameter starts to flash. Press key **-** or **+** to set the parameter value. To store the setted value, again hold key **•••** for approximately 5 seconds. Group P1 contains the following parameters; **(factory setting)**:


- [P1.1] night temperature (6 °C ÷ 26 °C); **(17 °C)**
- [P1.2] temperature reduction in ECO mode
(0 °C ÷ -9 °C); **(-3 °C)**
- [P1.3] frost protection temperature (0 °C ÷ 20 °C); **(6 °C)**
- [P1.4] temperature sensor calibration (-2 °C ÷ 2 °C); **(0 °C)**
- [P1.5] auxiliary temperature sensor calibration
(-2 °C ÷ 2 °C); **(0 °C)**
- [P1.6] display of measured temperatures (1 - room, 2 - outdoor,
3 - room and outdoor alternating, 4 - requested temp.); **(1)**
- [P1.7] beeper mode (- - - silent, 1 - by typing, 2 - by timer
switchover, 3 - by typing and timer switchover); **(1)**
- [P1.8] display of controlled devices (1 - visible, 2 - hidden); **(1)**
- [P1.9] temperature increase in PARTY mode
(0 °C ÷ -9 °C); **(0 °C)**
- [P1.10] temperature display by ESC command in normal display (see table):

Parameter value	WDC	CMP25-2	D10, D20 / CMP25
---	Auxilliary sensor DD2+	Auxilliary sensor DD2+	Auxilliary sensor DD2+
1	T1	Room temperature	Outdoor temperature AF
2	T2	<i>Not used.</i>	Room temperature RF
3	T3	Outdoor temperature	Stand-pipe VF
4	T4	Stand-pipe	Return-pipe RLF

Parameter value	WDC	CMP25-2	D10, D20 / CMP25
5	T5	Return-pipe	Boiler KF
6	T6	<i>Not used.</i>	Return into boiler RLKF
7	T7	Boiler	Domestic hot water BF1
8	T8	<i>Not used.</i>	Domestic hot water BF2 or solid fuel boiler KF2
9	/	<i>Not used.</i>	Solar collectors KTF
10	/	<i>Not used.</i>	Auxilliary room sensor RF2
11	/	<i>Not used.</i>	Floor EF
12	/	<i>Not used.</i>	Solid fuel boiler KF2
13	/	<i>Not used.</i>	Sensor on clamp C.12
14	/	Sensor on clamp T1	Sensor on clamp C.17

Service parameters S1

Service parameters S1 are intended for DD2+ service settings. To change the selected parameter, hold key **•••** for approximately 5 seconds. Parameter starts to flash. Press key **-** or **+** to set the parameter value. To store the setted value, again hold key **•••** for approximately 5 seconds. In service parameters S1 are the following settings; **(factory settings)**:


- [S1.1] measured temperatures roundup
(0.1 °C, 0.2 °C, 0.5 °C, 1.0 °C); **(0.5 °C)**
 - [S1.2] room temperature
(- - - no sensor, **1** - built in sensor, **2** - auxiliary sensor,
3 - avg. of built in and auxiliary sensor); **(1)**
 - [S1.3] menu auto-exit (1 - 20 s, 2 - 200 s); **(1)**
 - [S1.4] room unit locking (- - - no locking, 1 - no locking, but limited
function of key , **2** - enabled key Party and knob,
3 - enabled only key Party, **4** - full lock,
5 - room temperature sensor influence is disabled for at
least 5 hours); **(2)**
 - [S1.5] max. scale for day temperature setting
(10 °C ÷ 40 °C); **(30 °C)**
 - [S1.6] min. scale for day temperature setting
(0 °C ÷ 40 °C); **(10 °C)**
-

Service parameters S3

Service parameters S3 are intended for DD2+ service settings. To change the selected parameter, hold key **•••** for approximately 5 seconds. Parameter starts to flash. Press key **-** or **+** to set the parameter value. To store the setted value, again hold key **•••** for approximately 5 seconds. In service parameters S3 are the following settings; **(factory settings)**:

- [S3.1] Parameter locking
(- - - no locking, **1** - locked are groups S,
2 - locked are parameters S and P,
3 - locked complete menu); **(1)**





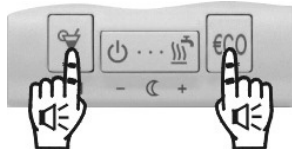
Access to parameter S3.1 is possible in the following way. Hold key  for 20 seconds (picture 15). Release the key after you hear a beep. On the display appears parameter (S3.1). Now it's possible to modify this or any other parameter.

Picture 15




Factory settings - DD2+ reset

To restore the factory settings hold keys  and  for approx. 20 seconds (Picture 16). Release keys after you hear a beep.



Picture 16

Solid fuel boiler systems

If the solid fuel has burned down, DD2+ signalizes it with symbol  on display and periodic beep sounds every 20 seconds. Signalisation of burned down solid fuel is active only in day temperature mode heating period.



Applies only to schemes from 408 to 413.

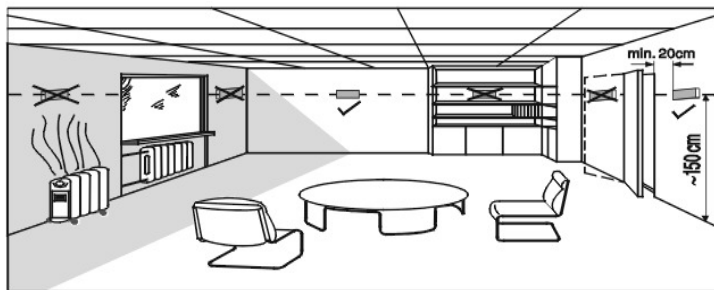
Disable of room sensor on DD2+

Room unit has built in function to disable room sensor influence for 5 hours. To activate this function, hold key ECO for 15 seconds (*Parameter S1.4 needs to be set to value 5!*).

This function is especially useful in cases of heating with fireplace or other heat source, which is operating independently to controlled heating system.

Place of mount

Place of mount is very important for proper DD2+ operation. Suitable places are inner walls, which aren't sun lighted or exposed to sources of heat and wind. DD2+ should be mounted approximately 150 cm above the floor (Picture 17).



Picture 17

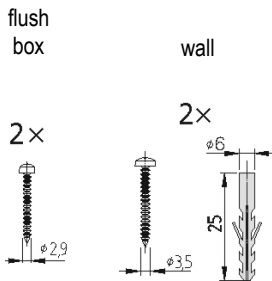
Wall plate mount

Remove the DD2+ from the wall plate, by doing the following. With one hand hold DD2+ in height of keys and with other hand the wall plate and pull them apart (Picture 18).

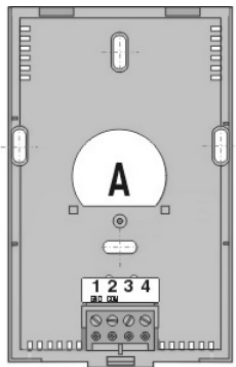


Picture 18

Room unit DD2+ is intended for wall mounting. In case you don't have installed a flush box, use the drilling template and mark drilling holes. Use enclosed screws to fasten the wall plate on the wall (Picture 19). After you have done connecting the wires (see chapters Wiring connections and Connecting the DD2+ to heating controller), put DD2+ back onto the base by doing the following. Hook DD2+ on top of the wall plate and push it with bottom towards the wall plate (Picture 10 - CLOSE).



Picture 19



Wiring connections

WARNING: Mounting and wiring connections must be done by a qualified installer or authorized company. Local regulations or VDE 0100 and EN IEC 60364 regulations for electrical installations must be considered by doing the wiring connections.

Bring the wires through the opening in bottom of the wall plate (Picture 19 - position A). Connect the terminals **1** and **2** on room unit with terminals GND and COM on controller (Schemes on pages 113-116).


After you have connected the wires, put DD2+ back on the wall plate. On the display appears rectangular frame (Picture 27).

If the rectangular frame doesn't appear on the display, the communication between room unit and controller isn't established. For troubleshooting refer to the DD2+ malfunctions, page 28).



Picture 20

Room unit synchronisation*

After the wiring connection, DD2+ needs to be synchronised with the controller. To synchronise the DD2+, hold key  for 30 seconds. After you hear two successive beeps, release the key. The DD2+ synchronisation is now in progress. When you hear another beep, the DD2+ is synchronised and you can continue with your work.



*DD2+ needs to be synchronised with the controller after all the temperature sensors are connected.**



The signal cable between DD2+ and controller must not exceed 50 meters.

** Synchronisation is not required by WDC and CMP25-2 controllers.*

Connecting the Telewarm

Connect Telewarm G1-D into the terminals **3** and **4** on the DD2+ wall plate (Picture 21).

To learn more about connecting the Telewarm on electric and telephone network see User manual for Telewarm.

Connecting the auxiliary temperature sensor

Always connect the auxiliary temperature sensor into the connector terminals **3** and **4** on wall DD2+ plate (Picture 21). Set the parameters for this sensor in service group S1. Telewarm for remote activation, can also be connected in the same terminals.

Picture 21











On the DD2+ can be connected only MURATA type sensors. This sensors are:

- outdoor sensor **AF/M**,*
- room sensor **PS10/M**,*
- immersion sensor **TF/M**.*

Coding switch

On the DD2+ backside is the 4-pole coding switch. The meaning of switches is:

	Room unit DD2+ is connected on WDC10B, WDC10, WDC20, CMP25-2.	Room unit DD2+ is connected on Promatic D10, D20, CMP25 or older devices.
	S1=OFF 	S1=ON 
S2=OFF 	Room unit controls circuit #1	Room unit controls direct circuit
S2=ON 	Room unit does not control circuit #1	Room unit does not control direct circuit
S3=OFF 	Room unit controls circuit #2	Room unit controls mixing circuit
S3=ON 	Room unit does not control circuit #2	Room unit does not control mixing circuit
S4=OFF 	Room unit #1	Room unit
S4=ON 	Room unit #2	Service console



Coding switch factory setting is OFF.

DD2+ malfunctions

Room unit automatically detects eventual malfunctions and signalises them on the display. These errors are: **Er1**, **Er2**, **Er3** and **Er4**.

Er 1 - temperature sensor malfunction

If the display writes out **Er 1** (Picture 22), it means built-in temperature sensor is in malfunction. Send room unit to the nearest authorised service or dealer.



Picture 22

Er 2 - malfunction of one or more sensors, connected to the controller

If the display writes out **Er 2** (Picture 23), it means one or more temperature sensors, connected to the heating controller is in malfunction. Check the resistance and connection of the sensors, to eliminate the malfunction.



*DD2+ signalises error **Er 2** also when DD2+ isn't synchronised with the controller (refer to the chapter Room unit synchronisation, on page 25).**

* Synchronisation is not required by WDC and CMP25-2 controllers.



Picture 23

Er3 - malfunction in communication link with the controller

If the display writes out **Er3** (Picture 24), communication link between room unit and controller isn't established or the link isn't established properly.

Possible causes are:

- connection between room unit and controller is disconnected. On the display does not appear the rectangular frame (Picture 25). Check the connection between room unit and controller.



Picture 24



Picture 25

Er4 - malfunction of the auxiliary temperature sensor, connected to the room unit

When the display writes out **Er4** (Picture 26), auxiliary (external) temperature sensor is in malfunction or isn't connected. Check the connection and resistance of the sensor.



Picture 26

Technical data

Model:.....	DD2+
Power supply:.....	8 V d.c.; max 20 V d.c and 2 batteries LR03, type AAA
Temperature sensor:	Murata NTC (10 kE)
Safety class:	IP 30 by EN 60529
Degree of protection:	II by EN 60730-1
Housing:	ABS thermoplastic, white
Dimensions (l × w × h):.....	72 × 32 × 112 [mm]
Weight:	150 g

Conformity with standards and directives

Room unit DD2+ corresponds to following guidelines and standards:

- LVD: Low voltage directive 2006/95/EC,
- EMC: Directive for Electromagnetic compatibility 2004/108/EC,
- RoHS: Directive for hazardous substances in electric and electronic appliances 2002/95/EC.

Product description:

Room unit

Model name:

DD2+

Applied standards:

EN 60730-1.



Disposal of Old Electrical & Electronic Equipment

Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems).



This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.