Description of icons and buttons on LCD display

SNOWFLAKE - frost protection function on
HAND - When displayed and flashing - manual mode
HEATING
6 time periods: Morning, Leave, Lunch, Leave2, Return2, Night
CHILD LOCK (by pressing **CLOCK** for > 7 s, you deactivate it and vice versa)
TEMPERATURE IN THE ROOM (ROOM TEMP),
TEMPERATURE IN THE FLOOR (OUT TEMP)
TEMPERATURE IN THE ROOM or of the floor, if only the floor sensor is on
DAY OF THE WEEK
TIME
Set temperature (SET TEMP) in the current time period
ON / OFF button
MENU button
CLOCK button
ARROW button

Pre-setting: Displej Elegant Plus™ LCD touch screen thermostat with weekly program

It controls floor heating and other heating systems with 7-day intervals and 6 periods of the program regulation. The models have an NTC sensor for ambient temperature and floor temperature detection, and they perform checking by set point comparison. Manual mode, time weekly period and temporary manual mode can be switched anytime by pressing the relevant buttons. Frost protection function will be active when the ambient temperature drops under 5 °C in order to prevent water pipe freezing as well as scorching. It can control other heating types: ball valve, electrically-actuated valve, thermal valve, solenoid, heating foil...

Features

LCD touch screen: When touched, with back-light and dual mode displaying temperature and time.
Option to set 6 time periods.
External and internal temperature sensors are available to choose from.
Display accuracy of the room temperature is 0.5.
Inner accuracy is 0.1°C.
Room temperature setting according to the requirement
Power-off memory function
Room temperature automatic calibration function

Technical data

Power supply: AC 200 – 240 V, 50/60 Hz
I Max: 16 A
Accuracy: ± 0.5 °C
Temperature range setting: 5 °C – 60 °C
Sensor: floor, room, or both
External temperature sensor: NTC
Limit temperature range of the NTC sensor: 5 °C – 99 °C
Consumption: < 0.3 W
Size: 86 x 86 x 17 mm (H x W x D)

Description of the buttons

No.	Icon	By pressing CLOCK icon for >7 seconds the child lock is deactivated and vice versa.
1	⏻	ON / OFF
2	↻	MENU button: Modes include manual, automatic and temporary manual modes.
3	⊕	CLOCK button - time setting: hours, minutes, weeks/days of the week By pressing CLOCK for >7 seconds you activate the child lock and vice versa.
4	∧	ARROW up - Higher temperature setting; ARROW up + MENU and ARROW up + CLOCK increase the programmable parameter
5	∨	ARROW down - Lower temperature setting; ARROW down + MENU, or ARROW down + CLOCK decrease the programmable parameter

Time and time interval setting

1) Time setting

Press the button "**CLOCK**", the clock flashes. Press **ARROW** up or **ARROW** down to set the hours. Continue by touching **CLOCK** and set the minutes...and the current day.

2) Automatic mode setting: workdays, temperature, time intervals

Weekly interval for automatic mode: press **MENU;** with Wi-Fi variant, keep it pressed for longer than 7 seconds. The screen will show **LooP** (workday interval setting). The screen will display days"12345" (the interval from Monday to Friday, press **ARROW**, it will show "12345**6**" (the interval from Monday to Saturday); press **ARROW** up twice, the screen will show "12345**6, 7**" (the interval of workdays - Monday to Sunday). Or press **ARROW** down, and the days will disappear from the screen. The thermostat will not be set with weekly program. Convenient for elderly people - only temperature is set.

Time and temperature setting for interval in automatic mode: After you have set the interval "12345" or "123456" or "123456, 7", press **MENU**. The set temperature flashes. Adjust it by **ARROW** up or down. Then press **CLOCK** to enter the setting of the first time, time interval. Adjust it by **ARROW** up or down. Continue by pressing **MENU**; use **ARROWS** to set the required temperature of the following interval. Then press **CLOCK** to enter the setting of the second time, time interval. And carry on with setting in this way...
Note: If it is necessary to temporarily change the temperature in the automatic mode, press **ARROW** up or down to adjust the temperature. With the next change the thermostat will come back to the automatic mode and "**HAND**" icon will disappear.

Adjustment of the time interval setting (shortcut)
Press **MENU** and again **MENU** and then **CLOCK**. Adjust the time interval by **ARROWS**. First **MENU**, then **CLOCK**, and adjust the time interval by **ARROWS**. And so on...

Temperature adjustment in the time interval (shortcut)
Press **MENU** and again **MENU**. Adjust the temperature by **ARROWS**. Press **MENU** and adjust the temperature by **ARROWS**...

Period		Icon	The set time of the period	The set temperature of the period	
Workday	1	☀	06:00	20 °C	If you set the temperature to "00", this time interval will be off.
	2	🏠→	08:00	15 °C	
	3	🏠←	11:30	15 °C	If only the floor sensor is on, then the floor temperature is displayed, otherwise the room temp.
	4	🏠→	12:30	15 °C	
	5	🏠←	17:30	22 °C	
	6	🌙	22:00	15 °C	
Weekend	1	☀	08:00	22 °C	
	2	🌙	23:00	15 °C	

Error message ERR
Please, choose the correct working mode of the internal and external sensors. If the sensor is selected incorrectly or it is faulty (failure), the LCD will show "ERR" and the thermostat will interrupt the heating until the failure is eliminated. Sensor extension: With hot water heating, select 1.5 – 2.5 mm^2 firm/stable cables; with electric heating, select firm cables, thicker than 2.5 mm^2.
Note: If the external sensor temperature exceeds the permitted value of the limit temperature, the thermostat will not switch the relay - the heating will not be on. But if the temperature is lower than the set value, HEATING icon will be displayed, but the thermostat will not switch the relay.

Advanced setting Usually done by technician   ↻

The thermostat is off. Press **CLOCK**🕒 and then the button **ON / OFF**⏻ and enter the advanced setting.
(Old software: With the power on, press and hold the button **MENU**   for > 5 seconds to enter the advance setting.) By pressing **MENU** button you will skip to another parameter.

No.	Symbol	Setting item	Parameter setting	Factory setting
1	SEN	Option to control the sensor	00: internal sensor, 01: external sensor 02: internal and external. Controlled according to the room temperature. External sensor limits the floor temperature.	00: internal sensor
2	0SU	Limit temperature value of the external sensor:	5 – 99 °C (**Set it to 37 °C** for electric floor heating with heating cables)	42.0 °C
3	dIF	Limit temperature hysteresis of the external sensor	1 °C – 9 °C	01.0 °C
4	SUH	Temperature display upper limit setting	5 °C – 99 °C	35.0 °C
5	SUL	Temperature display lower limit setting	5 °C – 99 °C	05.0 °C
6	AdJ	Temperature calibration with another thermometer	Temperature measuring, checking and calibration	Accuracy 0.1 °C (the current temperature)
7	FrE	Frost protection function	00: frost protection off 01: frost protection on	00: frost protection off
8	Pon	Status memory before the power cut-off	00: Power on, memory not needed **01:**Power on, memory is needed	01: Thermostat status as before the power cut-off
9	Add	For Wi-Fi model only Control by mobile	01 Control by mobile / by application 02-99 Prohibited control by mobile	01
10	FAC	Factory setting	01: display only, no other meaning/symbol 00: Reset to factory setting	01

Installation into round junction box **KPR 68 KA**
Caution: please, be extremely careful with the correct cable connection according to the wiring diagram. Make sure that no water, mud or any foreign particles will get into the thermostat; otherwise the thermostat may be damaged!

Round junction box KPR 68 KA

1, Open the main control panel by a 3.5 mm flat-head screwdriver along the flat edge, then insert it 4 mm deep, slightly lever it out in order to release the hook	2, Connect the back panel and wire into the **round** box KPR 68 KA, connect the wires according to the wiring diagram, fix the rear panel back on the box by a screw	3, Connect the wirings of the back panel and front panel	4, Hang it at 30° angle on 2 hooks, press down on the 2 bottom corners which are on the top cover; by this the installation is completed.

Wiring diagram
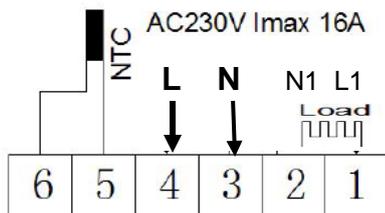
Wiring diagram for electric heating
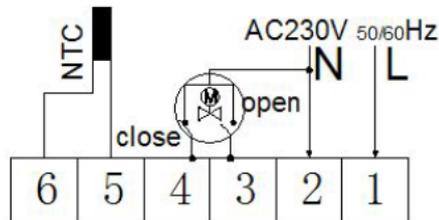
Hot water heating with external sensor
(Do not connect electrical valve terminal "in the proximity to 4")
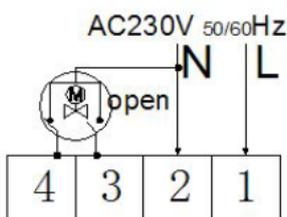
Hot water heating without external sensor
(Do not connect electrical valve terminal "in the proximity to 4")
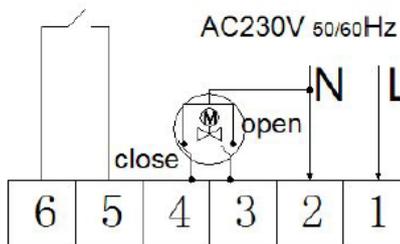
Hot water heating without contact
(Do not connect electrical valve terminal "in the proximity to 4")

Declaration of conformity

issued pursuant to § 1 of Act No. 264/99 Coll. and Government Regulation No. 194/2005 Coll. as amended by Government Regulation No. 318/2007 Coll. and No. 308/2004 Coll. as amended by Government Regulation No. 449/2007 Coll. The name: electronic thermostat Displej Elegant Plus for temperature regulation. Conformity assessment has been performed in accordance with: Government Regulation No. 194/2005 Coll. as amended by Government Regulation No. 318/2007 Coll. on electromagnetic compatibility of devices and Government Regulation No. 308/2004 Coll. as amended by Government Regulation No. 449/2007 Coll. on electric equipment. In conformity assessment regarding the product, there have been the following EU directives used as well as standards followed: EN 60730-1:2011,EN 60730-2-9:2010, EN 61000-3-2:2006+A2:2009, EN 61000-3-3:2008, the Low Voltage Directive 2006/95/EC, Annex 4, the EMC Directive 2004/108/EC, Annex II.

Extended 3-year warranty - Warranty coupon for thermostat Displej Elegant Plus   Room number / name: ....

The warranty is null and void, if the installation was not performed in professional way or error occurred by incorrect design, damage, incorrect installation or any other later damage. If we are asked to repair or replace such a unit, all the costs will be charged.

Date of sale / Stamp:	Installation date:	The thermostat must be energised at all times. The warranty is valid only with correctly delivered documents:
Electrician / Distributor:	Name and surname:	1. When the Warranty coupon is correctly filled in; 2. Document on purchase: invoice or purchase receipt; 3. Supplier's duty will be to repair or deliver a new unit free of charge to the customer without any other extra costs related to the repair or unit exchange.
Signature:	Stamp:	