

NGT-2.0-STND

(OCD5-1999-HMP3)



67396 03/15 (HKT)
© 2015 OJ Electronics A/S

INSTALLATION INSTRUCTIONS



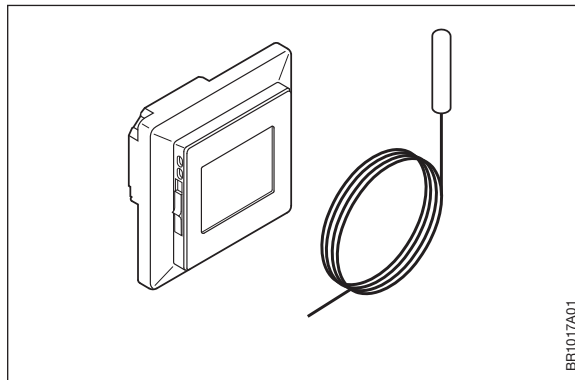
GREEN COMFORT

Maximum comfort with low energy consumption

NGT-2.0-STND

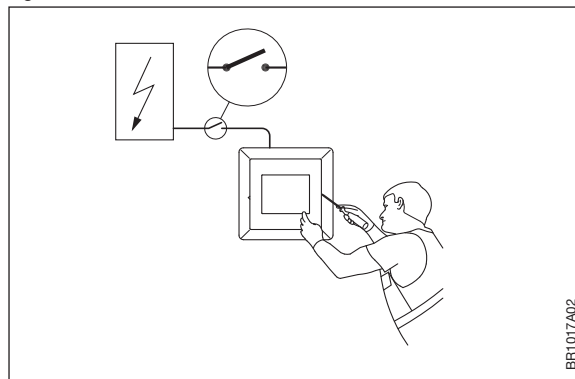


Fig. 1



BR1017A01

Fig. 2



BR1017A02

Fig. 3

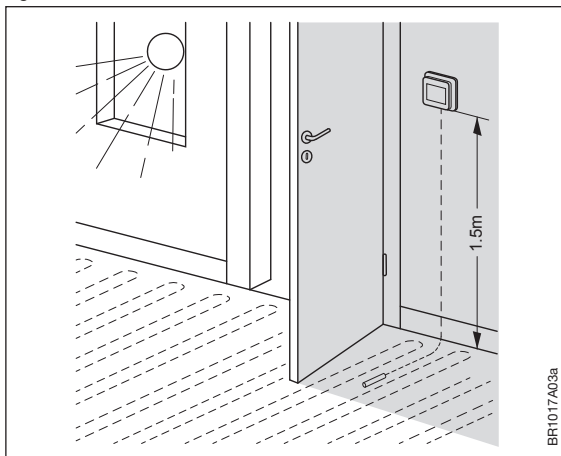


Fig. 5

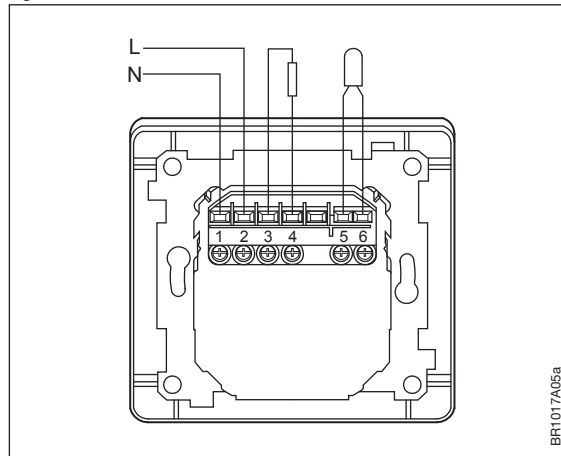


Fig. 4

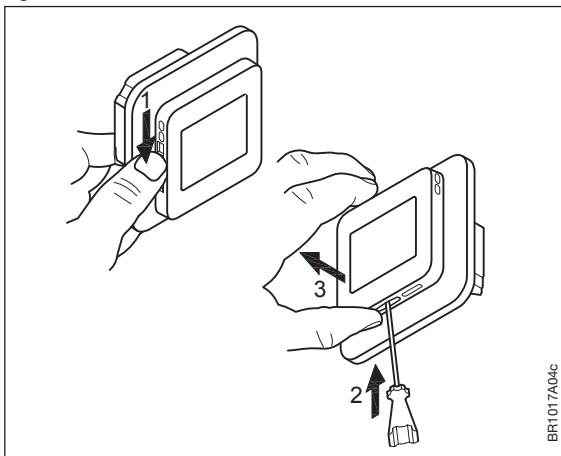


Fig. 6

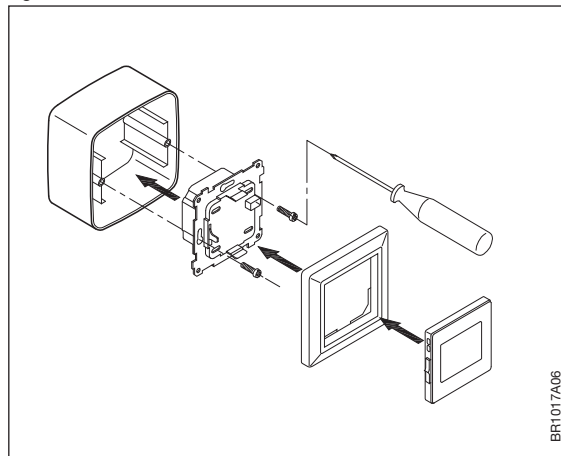
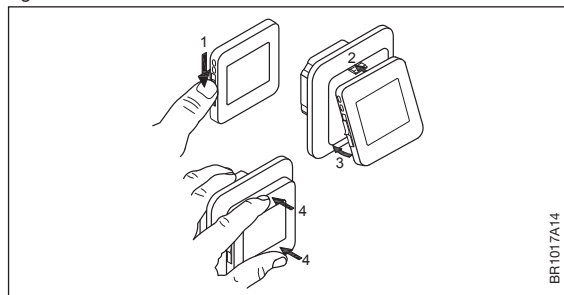
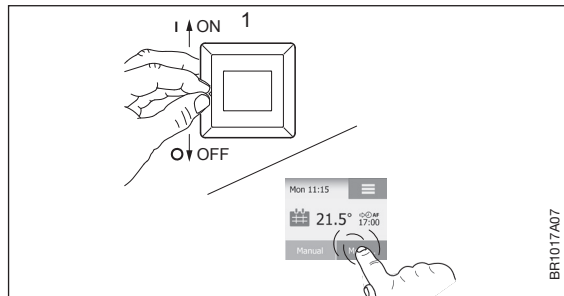


Fig. 7



BR1017A14

Fig. 8



BR1017A07

Fig. 9

NTC 12K Ω @ 25° Celsius		
°Celsius	°Fahrenheit	Ω Ohm
-10° C	14° F	63929 Ω
0° C	32° F	37942 Ω
10° C	50° F	23364 Ω
20° C	68° F	14871 Ω
30° C	86° F	9752 Ω

BR1017A17



NGT-2.0-STND

Installation instructions
English

FIG. 1 - CONTENT

- Thermostat
- Sensor

The thermostat is an electronic PWM/PI thermostat for temperature control by means of an NTC sensor located either externally or internally within the thermostat.

The thermostat is for flush mounting in a wall socket. A baseplate for wall mounting is also available.

Product programme

NGT-2.0-STND Clock-thermostat with two sensors:
floor sensor and built-in room sensor.

FIG. 2 - WARNING – Important Safety Instructions

Disconnect the power supply before carrying out any installation or maintenance work on this thermostat and associated components. The thermostat and associated components should only be installed by a competent person (i.e. a qualified electrician). Electrical installation must be in accordance with appropriate statutory regulations.

FIG. 3 - THERMOSTAT PLACEMENT

Mounting of sensor

The floor sensor contains a safety extra-low voltage (SELV) circuit, allowing it to be placed as close to the floor surface as possible without having to take account of the risk of shock should the sensor cable become damaged. To prevent loose wires in the fixed installation from coming into contact with the terminal block for the floor sensor, they must be restrained using cable ties.

It is recommended that the cable and sensor are placed in a non-conductive installation pipe embedded in the floor. The end of the pipe must be sealed and the pipe placed as high as possible in the concrete layer. Alternatively, the sensor can be embedded directly in the floor. The sensor cable must be led through a separate conduit or segregated from power cables.

The floor sensor must be centred between loops of heating cable.

The sensor cable may be extended up to 100 m by means of a separate two-core cable. Do not use the vacant wires in a multi-core cable if other wires within the cable will have current running through them. If a shielded cable is used, the shield must not be connected to earth (PE). The two-core cable must be placed in a separate pipe or segregated from power cables in some other way.

Mounting of thermostat with built-in sensor

The room sensor is used for room temperature regulation. The thermostat should be mounted on the wall approx. 1.5 m above the floor in such a way as to allow free air circulation around it. Draughts and direct sunlight or other heat sources must be avoided.

FIG. 4 - OPENING THE THERMOSTAT

1. Slide the power button down to Off "0".
2. Release the front cover ONLY by inserting a small screwdriver into the slot at the centre of the bottom side of the front cover to press and hold the catch securing the front cover.
3. Then carefully pull the front cover away, initially from the lower part of the thermostat, then from the upper part of the thermostat.

FIG. 5 - CONNECTIONS

Connect the wires in accordance with the diagram. The wires must be connected as follows:

- Term. 1: Neutral (N)
- Term. 2: Live (L)
- Term. 3-4: Output, max. 16 A
- Term. X: Do not connect
- Term. 5-6: External floor sensor

Please note - earth connection must not be made through the thermostat.

FIG. 6 + 7 - MOUNTING THE THERMOSTAT

1. Mount the thermostat in the wall socket.
2. Fit the frame and carefully press the cover onto the thermostat - starting with the upper part of the cover, then the lower part of the cover. Ensure that both the power slide button on the cover and the power switch pin in the thermostat are down.

3. Click the cover into place by applying light, even pressure. Warning! Do not apply pressure to the corners of the display cover or to the display itself.

DO NOT open the thermostat by releasing the four fixing clips on the back.

FIG. 8 - OPERATING THE THERMOSTAT

There is an ON/OFF switch on the left side of the thermostat: up is ON - down is OFF.

The resistive touchscreen requires a soft tap with your fingertip to register the touch.

Installer Wizzard:

The first time the thermostat is connected, push the power slide button to On "I" The Installer Wizard on the touchscreen will guide you through the set up of:

1. Region
2. Language
3. Date
4. Time
5. Floor Type

Programming

See user manual.

<http://www.heatmat.co.uk/ngtouch-user-manual>



FIG. 9 - TROUBLESHOOTING

If the sensor is disconnected or short-circuited, the heating system is switched off. The sensor can be checked against the resistance table.

Error codes

- E0: Internal fault. The thermostat must be replaced.
- E1: Built-in sensor defective or short-circuited. Replace the thermostat, or use the floor sensor only.
- E2: External sensor disconnected, defective or short-circuited.
Reconnect the sensor if disconnected, or replace the sensor.
- E5: Internal overheating. Inspect the installation.

CE marking

According to the following standard:
LVD/EMC: EN 60730-2-9

Classification

Protection from electric shock must be assured by appropriate installation. Appropriate installation must meet the requirements of Class II (enhanced insulation).

Environment and recycling

Please help us to protect the environment by disposing of the packaging in accordance with national regulations for waste processing.

Recycling of obsolete appliances



Appliances with this label must not be disposed of with general household waste. They must be collected separately and disposed of in compliance with local regulations.

TECHNICAL DATA

Voltage	100-240 VAC
Max. pre-fuse	16 A
Built-in circuit breaker	2-pole, 16 A
Output relay.....	make contact - SPST - NO
Output	max. 16 A
Terminal wire size	1.5-2.5 mm ²
Control principle.....	PWM/PI
Standby power	0.5 W
Battery backup	5 years
Action type	1.B
Software class	A
TB	125°C
ELV limits realized.....	SELV 24 V
Pollution degree rating.....	2
Rated impulse voltage.....	4 kV
Enclosure rating.....	IP 21
Dimensions.....	H/82, W/82, D/40 mm
Build-in depth.....	23 mm
Display.....	176x220 pixel TFT - resistive touch
EU registered design	DM/082270

The thermostat is maintenance free.



Heat Mat Limited, Ashwyn Business Centre,
Marchants Way, Burgess Hill. RH15 8QY
sales@heatmat.co.uk, www.heatmat.co.dk