INSTRUCTIONS

Type OSD4-1999

67025D 07/16 (LOA)





English

CS4™ THERMOSTAT

A wireless, radio controlled thermostat recommended for Comfort System 4. The thermostat is ideal for all floor types and controls the heating on the basis of room, floor or room/floor limit temperature. Wireless communication to the central controller ensures easy installation.

PRODUCT PROGRAMME

OSD4-1999 Radio controlled thermostat with built-in room sensor and floor sensor

WARNING – Important Safety Instructions
Disconnect the power supply before carrying out
any installation or maintenance work on this unit
and associated components. This unit 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.

INSTALLING THE THERMOSTAT

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

Fig. 1:

- 1. Slide the power button down to Off "0".
- Release the front cover ONLY by inserting a small screwdriver into the hole on either side of the thermostat.

Fig. 2 + 2a:

- 3. Connect the wires in accordance with the diagram.
- 4. Mount the thermostat in the wall socket.
- Fit the frame and carefully press the cover onto the thermostat. Ensure that both the power slide button on the cover and the power switch pin are down.

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

MOUNTING OF SENSOR

The terminals for the sensors contain a safety extra-low voltage (SELV) circuit, allowing the sensors to be placed as close to the floor surface as necessary without the risk of electric shock, should the sensor cable become damaged.

Sensor cable recommendations

- The sensor cable may be extended up to 30 m by means of a separate two-core cable.
- The two wires from the sensor to the thermostat must be kept separate from high voltage wires/cables.
 - Place the cable in a separate pipe or segregate it from power cables in som other way. Never use two vacant wires in a multi-core cable
- Shielded cable: Do not connect the shield to earth (PE).

Fig. 3: Mounting of floor sensor

The floor sensor is used for comfort temperature regulation in rooms on the basis of floor temperature. It is recommended that the cable and sensor be 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.

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

PLACING THE THERMOSTAT

The room sensor is used for comfort temperature regulation in rooms.

Fig. 4:

The thermostat should be mounted on the wall approx. 1.6 m above the floor in such a way as to allow free air circulation around it. The thermostat must never be covered by a curtain or similar. Draughts and direct sunlight or other heat sources must be avoided.

Fig. 4a:

Observe the minimum distance of 0,5m, from large metal surfaces, electronic equipment, electric motors, etc.

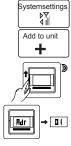
Fig. 4b:

To ensure good wireless transmission without interference, *all wireless units* in the Comfort System $CS4^{TM}$ should always be placed with min. 1,0m between them.

QUICK SETUP

Quick guide to thermostat setup:

- Activate the Central Controller. Go to Menu/System settings.
- 2. Select Add unit.
- 3. Activate the thermostat.
 The address will be displayed.
- Select time schedule in the menu of the central controller. You need to name the time schedules from the list (zonenames). You can max. have 5 time schedules in the system.



PROGRAMMING

See user manual for CS4™ for further options and how to plan you system

FIG.5: SENSOR RESISTANCE

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 / STATUS

E0: Internal error. The unit must be replaced. E1: Built-in sensor short-circuited or discon-

- nected. E2: External sensor short-circuited or discon-
- nected.
 E5: Internal overheating. Inspect the installation.
 E8: Wrong application in the thermostat or the
- E8: Wrong application in the thermostat or the time schedule.
- Communication error. No connection to the central controller - The thermostat will switch to manual mode.
- The aerial strenght to the Central Controller is displayed in 1 to 4 bars. 4=Full signal, 1=very low signal.

FACTORY RESET

Allows factory settings to be restored. Your personal settings will be lost for this thermostat, and the connection to the central controller will be interrupted.

 Press and hold the middle button until the display stops flashing and the manual symbol is shown (after 10 seconds).

The factory settings are now restored and the thermostat is in manual mode.

Turn the thermostat OFF and back ON to reconnect to the Central Controller.

CERTIFICATION

OJ Electronics A/S hereby declares that the product conforms with the following Directives of the European Parliament and of the Council:

LVD, EMC, R&TTE, RoHS and WEEE

Applied standards

Please see the document "EC DECLARATION OF CONFORMITY" in the back.

CLASSIFICATION

The product is a Class II device (enhanced insulation) and must be connected in the following way:

Term. 1: Neutral (N)

Term. 1: Neutral (N)
Term. 2: Phase (L) 230 V \pm 10 %, 50/60 Hz
Term. 3-4: Load, max. 16 A / 3600 W

Term. X: Do not connect Term. 5-6: External floor sensor

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	230 V AC ±10 % 50 Hz
Max. pre-fuse	16 A
Built-in circuit breaker	2-pole, 16 A
Output relay Ma	ke contact - SPST - NO
Output	Max. 16 A / 3600
Control principle	PWM/PI
Stand-by power	
RF frequency band	
RF transmission range	
Temperature range	+5/+40 °C
Limit sensor	+5/+40 °C
Ambient operating tempe	rature+0/+25 °C
Sensor input type	
Pollution degree	2
Overvoltage	Cat. II
Rated impulse voltage	
Enclosure rating	IP 21*
Dimensions	H/81, W/81, D/40 mm
Mounting depth	20 mm
Display H	I/25, W48 mm, segment
EU Registered Design	001534462-0001/2
According to EN 60730-1	:2011
Automatic action type 1	

* IP 21 applies only to front with cover after mounting in a flush box

The thermostat is maintenance free.

OJ ELECTRONICS A/S

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Fig. 1

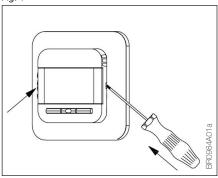


Fig. 2

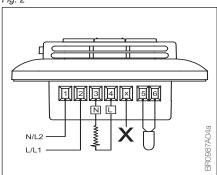


Fig. 3

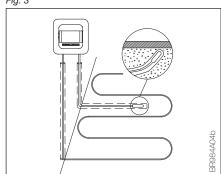


Fig. 4

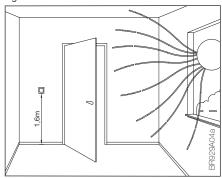


Fig. 4a

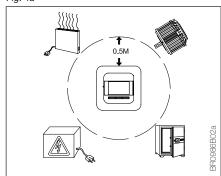
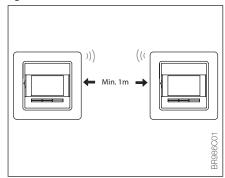


Fig. 4b



EC DECLARATION OF CONFORMITY
No.: 0987

en

The undersigned, representing the following manufacturer

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ſ	Manufacturer:	OJ ELECTRONICS A/S
	Address:	Stenager 13B, 6400 Soenderborg, Denmark, tlf. (+45) 7312 1314.

Herewith declares that the product

nerewith declares that the product		
Product identification: Control, temperature s	sensing	
OCS4-10, MCS4-10	Central Control Unit	
OSC4/OSD4, MSC4/MSD4	Satellite Unit	
OSA4-10, MSA4-10	Relay Point Unit	

Is in conformity with the provisions of the following EC directive(s)

(including all app	olicable amendments)
Reference n°	Title
2004/108/EC	EMC DIRECTIVE
	The European parliament and of the council of 15 December 2004 on the approximation of
	the laws of the Member States relating to electromagnetic compatibility and repealing
	Directive 89/336/EEC.
2006/95/EC	LOW VOLTAGE DIRECTIVE
	Council Directive 2006/95/EC of 12 December 2006 on the harmonization of the laws of
	Member States relating to electrical equipment designed for use within certain voltage limits
1999/5/EEC	R&TTE DIRECTIVE
	Directive of 9 March 1999 of the European Parliament and of the Council on Radio
	Equipment and Telecommunications Terminal Equipment and the mutual recognition of their

Harmonized standards

Harmonized Standards				
N°	Issue	N°	Issue	
EN 60730-1	2011	EN 300 220-2	V2.4.1	
EN 60730-2-9	2010	EN 300 220-1	V2.1.1	
		EN 301 489-3	V1.4.1	
		EN 301 489-1	V1.8.1	
		EN 62479	2010	

Testing was carried out by the VDE Prüf- und Zertifizierungsinstitut.

Soenderborg, date 04/07/2013



Fig. 5

Sensor	
Temp.(°C)	Value (ohm)
-10	64000
0	38000
10	23300
20	14800
30	9700