

ORT-01

Electronic modulating room thermostat for OpenTherm appliances



OpenTherm®

This product complies with the following EC Directives:
Electro-Magnetic Compatibility Directive.
(EMC) (89\336\EEC), (92\31\EEC)
Low Voltage Directive.
(LVD) (73\23\EEC), (93\68\EEC)

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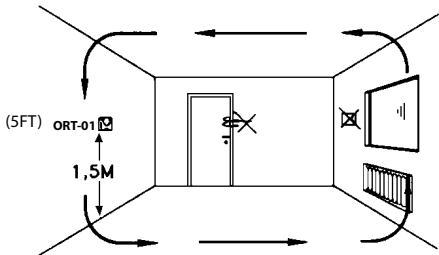
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Specifications

GB**Specifications**

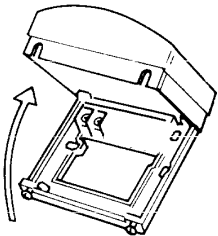
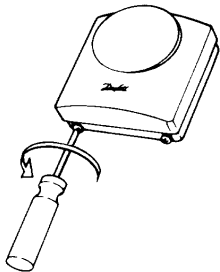
Specifications	
Code Number	087N774300
Temperature range	5-30°C
Maximum ambient temperature	45°C
Control type	P + I
OpenTherm software version	2.3
Domestic hot water keep hot feature	•
Holiday mode	•
ID 14 low load control	•
Thermostat output	Data
Construction	EN60730-2-9
IP rating	IP20
Supply voltage	24V DC from boiler
Wiring, non-polarised 2 wire bus	•
Control pollution situation	Degree 2
Ball hardness test	75°C
Dimensions (mm)	86 high x 85 wide x 42 deep



Mounting

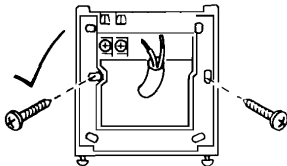
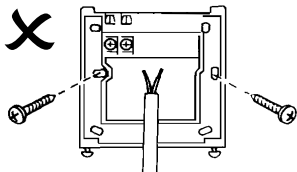
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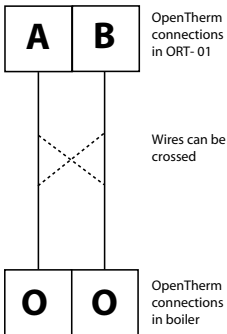
Mounting



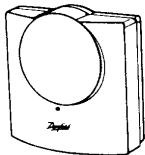
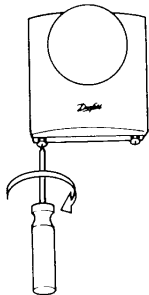
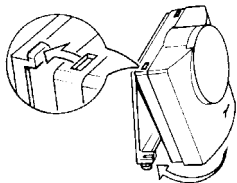
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Wiring






Important - *To avoid damage to Boiler and Thermostat, connect only to OpenTherm connections on boiler, do not connect to any other power source.*

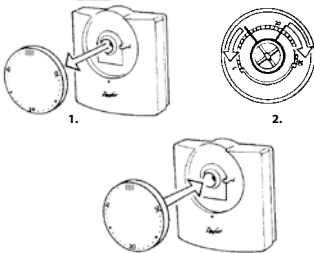


Locking and Limiting

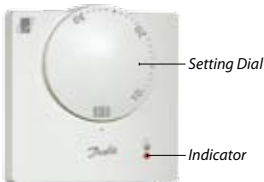
1. Before removing dial, turn until setting 10 aligns with reference mark on front case.
2. Remove dial, lock or limit as required (see note below).
3. Replace dial, ensuring setting 10 aligns with reference mark on case.

Important Note:

If Holiday Function  is required **DO NOT** adjust lower limit.




User Instructions




Unlike normal room thermostats, the ORT-01 infinitely varies the heat output of the Opentherm condensing boiler to which it is connected. This adds significantly to the boiler efficiency by ensuring that the boiler keeps in economical condensing mode whenever possible.

Daily use is as easy as setting the thermostat dial to the required setting, the advanced electronics and software within the thermostat establish two-way communication with the Opentherm boiler to ensure optimal operation.

In addition to the room temperature control, the ORT-01 also incorporates a feature which, dependant on boiler type, allows the domestic hot water store in the boiler to be kept hot or to be turned off, for example when on holiday. To select hot water off, simply turn the thermostat knob to the holiday position .

Settings

Room Temperature Setting 10 – 30°C: Set dial to required room temperature, domestic hot water store in boiler is kept hot*.

Holiday Setting : Controls room temperature at 10°C, (frost setting), domestic hot water store in boiler is turned off.

**(This feature is dependant upon boiler type).*

Indication

Start-Up: When boiler is first turned on the LED will flash for 20 seconds.

Normal Operation: LED will be lit whenever the boiler is firing.

Holiday Mode: When thermostat is put into, or taken out of holiday setting the LED will flash for 20 seconds.

Alarm Mode: Should a fault occur with the boiler the LED will flash continuously to warn of failure.

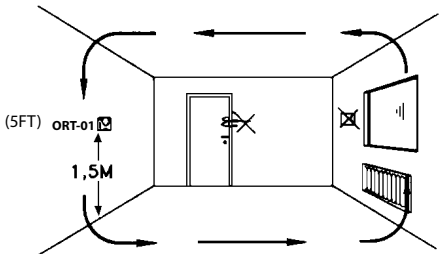
Technische Specificaties

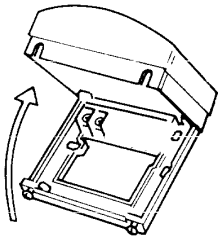
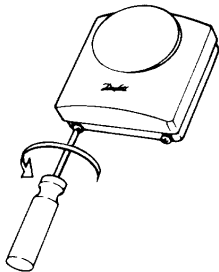
Technische Specificaties	
Bestelnummer	087N774300
Temperatuurbereik	8 - 30°C
Maximale omgevingstemperatuur	45°C
Regelprincipe	P + I
OpenTherm Protocol	2.3
Warm tapwater Comfort-functie	•
Warm tapwater Eco-functie (vakantie stand)	•
ID 14 regeling lage belasting	•
Thermostaat output	OpenTherm Data
Fabrikagenorm	EN60730-2-9
Dichtheidsklasse	IP20
Voedingsspanning	24V dc van ketel
Aansluiting: 2 draads, polariteit ongevoelig	•
Emissiewaarde	Niveau 2
Afmetingen in mm (bxhxd)	85x86x42

Montage

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Montage

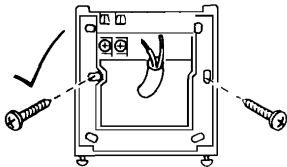
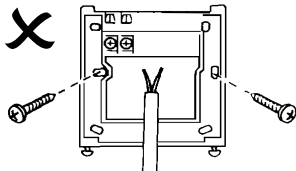


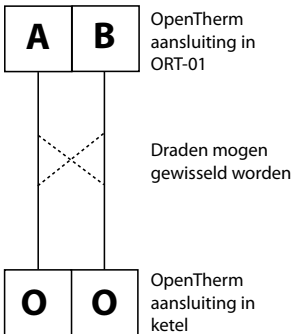


Bedrading

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Bedrading



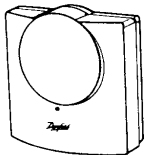
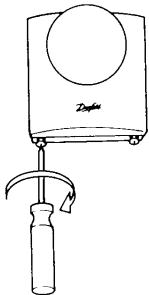
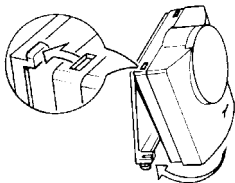


Belangrijk - Om schade aan ketel en thermostaat te voorkomen dient de thermostaat alleen op de OpenTherm aansluiting van de ketel te worden aangesloten.

Montage

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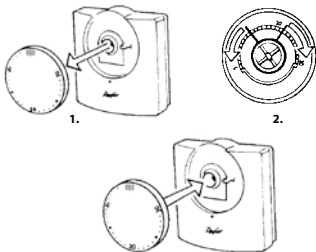
Montage



1. Draai de instelknop op stand 10.
2. Verwijder de instelknop en blokkeer of begrens naar behoefte (zie onderstaand schema).
3. Plaats de instelknop op stand 10 weer terug.

Let op:

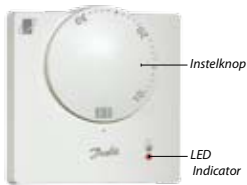
Stel geen minimum begrenzing in als de Vakantie Stand nodig is.




Gebruikers handleiding

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Gebruikers handleiding




Anders dan bij normale aan/uit thermostaten regelt de ORT-01 traploos de warmteafgifte van de OpenTherm ketel waarop hij is aangesloten. Dit draagt in hoge mate bij aan het ketelrendement door te zorgen dat de ketel zo lang mogelijk in HR (condenserend) bedrijf

werkt. Dagelijks gebruik is zeer eenvoudig door de instelknop van de thermostaat simpelweg op de gewenste temperatuur in te stellen. De geavanceerde elektronica en innovatieve software in de thermostaat verzorgen de twee-weg-communicatie met de OpenTherm ketel en verzekeren een optimale werking. Naast de nauwkeurige ruimtetemperatuurregeling voorziet de ORT-01 ook in de functie, afhankelijk van het type ketel, om de warme tapwatervoorraad op temperatuur te houden (comfort) of uit te schakelen (eco), bijvoorbeeld tijdens vakanties buitenshuis. Om de eco-functie te activeren dient de instelknop op de vakantiestand  te worden gezet.

Instellingen

Ruimtetemperatuur instelling 10 – 30°C: Zet de instelknop op de gewenste ruimtetemperatuur, tapwater voorraad wordt op temperatuur gehouden*.

Vakantiestand : Regelt de ruimtetemperatuur op 8°C, (vorst beveiliging), warm tapwater uitgeschakeld*.

**(Deze functie is afhankelijk van het keteltype).*

LED-indicator

Opstarten: Na het inschakelen van de voedingsspanning van de ketel knippert de LED gedurende 20 seconden.

Normaal bedrijf: LED is aan wanneer de ketel brandt.

Vakantiestand: Wanneer de thermostaat op Vakantiestand wordt gezet knippert de LED twee keer, bij terugzetten op normaal bedrijf een keer.

Alarm functie: Indien zich een fout in de ketel voordoet, zal de LED als waarschuwing continu knipperen.

www.danfoss.com/BusinessAreas/Heating

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