



Instruction manual Käyttöohjeet Bruksanvisning



Bluetooth®

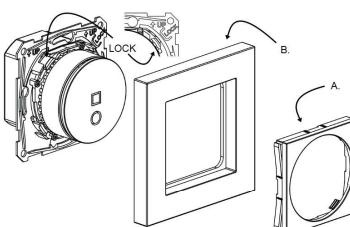
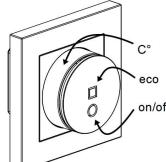


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Installation and operating instructions

BLE THERMOSTAT – SETUP TECHNICAL SPECIFICATIONS

Bluetooth: Version 4.2
Power supply: 230V - 50Hz
Maximum load: 16A (resistive)
Temperature range: +5°C/+35°C
External Temperature setback: 230V - 50Hz
IP class: IP21
Standard Color: White
Sensors: Built-in room sensor and external floor sensor NTC



INSTALLATION

Installation must be done by a qualified electrician in accordance with wiring and building regulations. Before installation, disconnect any power to the thermostat's mains.

Start by releasing the front cover [A] by pushing the rotary dial [C°] hard in and parallel turning anti-clockwise. The front cover and the frame [B] can now be pulled away easily.

Connect the wires to the thermostat's terminal: SETBACK: External Setback Wire (if applicable), HEATING (N): Heating Cable N connection, N: Power N connection, FLOOR SENSOR: Floor temp sensor NTC, HEATING (L): Heating Cable L connection, L: Power L connection.

Next, position the thermostat and fasten it into the wall mounting box using 2-4 screws. Assemble the frame. Check that fixing nails are in 'LOCK' position. If not use screwdriver to push to correct position. Push the front cover until it snaps in place. The front cover should now be firmly fixed on all sides. To release front cover and frame again one shall push rotary dial hard in and parallel turn anti clockwise.

STARTUP

After connecting the power to the thermostat for the first time thermostat recognizes if floor sensor is connected or not and makes initialization accordingly (selects between floor mode and air mode). The following settings are initialized accordingly (floor/air).

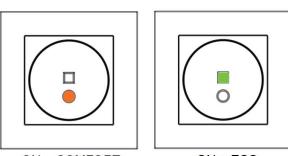
Mode : Floor / Air
Floor temperature min : 5°C / NaN
Floor temperature max : 35°C / NaN
Name of thermostat : RANDOM number
Week program eco temperature : 19°C
Eco button and external pilot signal eco temperature : 19°C
Floor temperature offset [calibration] : -6°C
Air temperature offset [calibration] : 0°C
Air temperature min : 5°C
Air temperature max : 28°C
PWM min : 0%
PWM max : 100%
Valve protection : OFF
Sensor type : 10k ohm
Led intensity : 100%
Weekly program : OFF

Use ecoControl App to check and modify settings.

BLE THERMOSTAT – USER MANUAL

BASIC USAGE

The thermostat is controlled by rotary dial [C°] and two touch sensitive capacitive buttons [eco, on/off]. Use dial to set target comfort temperature. The snowflake and maximum symbols equal to min and max temperature specified in settings. Use buttons to turn device ON/OFF and to select between comfort mode and eco mode.



Eco touch button

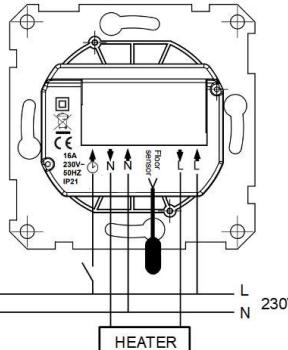
By pressing unlit eco touch button the setpoint temperature is changed to eco button and external pilot signal eco temperature setting. Dial position has now NOT effect. Touch to green illuminated eco stops the eco mode and the rotary dial setpoint temperature is used again. During week schedule the touch of eco button skips the current week program slot. Green indicates that temperature is reduced according to user's week schedule or eco touch button or external pilot signal.

Power touch button

By pressing red illuminated power touch button the thermostat is turned to stand-by mode. In stand-by mode heating is forced OFF despite of temperature. The touch of unlit power touch pad turns thermostat ON. Breathing red light indicates that thermostat is ON and heating in comfort mode. Red indicates that temperature is according to dial position and thermostat is ON.

1 Settings

Thermostat has several settings which can be adjusted by ecoControl App.



Mode

Thermostat can adjust floor temperature, air temperature, air temperature with floor limits (dual) or heating ratio (PWM control) according to mode selection.

Floor temperature min and max

This setting has two main purposes. In floor mode min and max values specify active range of dial. In dual mode setting does not effect to dial but thermostat keeps floor temperature between limits. Feature can be used to protect wooden floors (max limit) or to guarantee warm floor in room with fireplace, e.g. Note: NaN in PWM mode and in air mode.

Air temperature min and max

This setting has two main purposes. In air mode it specifies active dial range. In all other modes it can be used as air frost/over temperature protection.

Name of thermostat

Name shown in ecoControl App

Week program eco temperature

During every week program eco slot the temperature is adjusted to this value.

Eco button and external pilot signal eco temperature

During every eco button active time and external pilot signal active time temperature is modified to this value.

Floor temperature offset (calibration)

If user's temperature measurement has offset to dial setpoint this setting is used to calibrate. Note, floor sensor inside floor construction is much warmer than real temperatures measured in room. Thus default is -6°C to have rotary dial adjustment range in realistic area of 18C..24C.

Air temperature offset (calibration)

If user's temperature measurement has offset to dial setpoint this setting is used to calibrate.

PWM min and max

This setting has two main purposes. In PWM mode min and max values specify active dial range. In all other modes it guarantees maximum pulse ratio. Note: Setting can be used, e.g., to limit maximum heating power to comply with installation standard EN50599.

Valve protection

Valve protection turns heating ON once per week for 5 minutes even at summer time. This setting is typically used if thermostat controls water carrier floor heating valve. Feature protects valve during summer time not to stick.

Sensor type

Floor sensors from different manufacturers can be used. Supported types are 2k, 10k, 12.5k, 15k, 33k NTCs.

Led intensity

Intensity of power and eco touch buttons.

2 Week schedule

User can create 7d/24h week schedule in ecoControl App. With week schedule user programs thermostat to decrease temperature during time slots when room is not used. Green eco button indicates that thermostat is in week schedule eco slot. Week schedule execution needs correct real time in thermostat. In case of invalid real time the week program is deactivated and user is warned by blinking red and green lights. Real time is updated from ecoControl App every time the thermostat is connected to a mobile phone. Real time has backup to power shortages of 2 hours.

3 ecoControl App connection

User may use a mobile device ecoControl App (Android / iOS) to read log temperatures, to make settings and to give an user week program. App also can generate email reports. Follow guides in ecoControl App! A Thermostat indicates a mobile device connection by the fast blinking of on/off button.

4 Error modes

Parallel blinking red and green light indicates erratic state. The most typical case is that real time is corrupted by long power breakage. This is automatically solved by taking connection with ecoControl app. Use ecoControl App to read an error code.

Possible error codes are

- 1 Floor sensor fault
- 2 Over heat
- 3 Internal fault
- 10 Calendar time is not valid

You may try to reset fault by using power touch button to soft reset or by using ecoControl App to generate hard reset.

In errors 1, 2, 3 heating is permanently off. In error 10 week program is deactivated.

Käyttö- ja asennusohje

BLE TERmostaatti – ASENTAMINEN TEKNISET TIEDOT

Bluetooth: Versio 4.2

Käyttöjännite: 230V - 50Hz

Kuorma: 16A (resistiivinen)

Lämpötila-alue: +5°C/+35°C

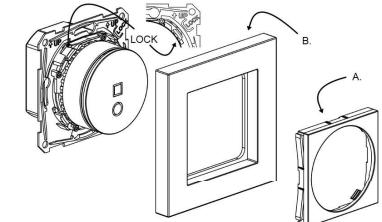
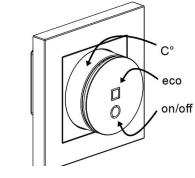
Ulkoinen ohjaus: 230V - 50Hz

IP-luokka: IP21

Väri: Valkoinen

Anturi: Sisäänrakennettu huoneanturi,

Ulkoinen lattia-anturi NTC

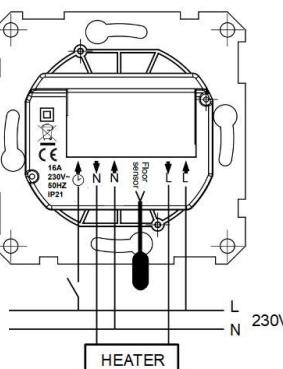


ASENNUS

Tuotteen saa asentaa vain valtuutettu ja pätevä asentaja paikallisten määräysten mukaisesti. Varmista sähkönsyötön jännitteettömyys ennen asennusta.

Aloita vapauttamalla keskiölevy [A], painamalla nuppi pohjaan [C°] ja kääntämällä samalla vastapäivään. Nän kehys [B] ja keskiölevyn kaikki kiinnitysvaiomat poistuvat.

Kytke johdot termostaatin liittimeen: SETBACK: Ulkoinen ohjaus [jos käytössä], HEATING (N): Lämmittimen N johdin, N: Syötön N johdin, FLOOR SENSOR: Lattia-anturi NTC, HEATING (L): Lämmittimen L johdin, L: Syötön L johdin.



KÄYNNISTYS

Ensimmäisellä käynnistyskerralla termostaatti tunnistaa onko lattia-anturi kytketty. Tehdasasetukset määrittyvät automaatisesti tämän mukaan seuraavasti:

Toimintatila : Lattia / Huone

Lattialämpötila min : 5°C / ei käytössä

Lattialämpötila max : 35°C / ei käytössä

Tuotteen nimi : Satunnaisluku

Viikko-ohjelman eco lämpötila : 19°C

Ulkoisen ohjauksen eco lämpötila : 19°C

Lattia kalibraatio : -6°C

Huone kalibraatio : 0°C

Huone lämpötila min : 5°C

Huone lämpötila max : 28°C

PWM min : 0%

PWM max : 100%

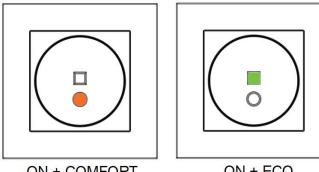
Venttiilisuojat : OFF

NTC tyyppi : 10k ohm

Led voimakkuus : 100%

Viikko-ohjelma : OFF

Käytä ecoControl App:ää asetuksen tarkistamiseen ja muuttamiseen.



Led kirkkaus
Kosketusnappien valojen kirkkaus.

3 Viikko-ohjelma

Käyttäjä voi luoda oman viikko-ohjelman ecoControl App:ssa. Viikko-ohjelmalla käytäjä määräät termostaatin vähentämään lämpötilaa kun tila ei ole käytössä. Vihreä eco-nappi osioitaa etätä termostaatti käytävä nupin asetuksen siistä alhaisempaan lämpötilaan. Viikko-ohjelman suorittaminen edellyttää oikeaa kelloaikaan termostaattissa. Jos viikko-ohjelma on käytössä ja kellonaikaa on virhe, häytävä termostaatti vilkuttaa vihreää ja punaista valoa. Kellonaika päivitetään aina kun termostaatti otetaan yhtees ecoControl App:lla. Kelloaika säilyy alle kahden tunnin sähkökatkojen yli.

4 ecoControl App yhteys

Käyttäjä voi asentaa ja käynnistää ecoControl App (Android / iOS) sovelluksen. App:lla voi seurata tilan viimeisimpiä lämpötiloja, muuttua asetuksia ja tehdä viikko-ohjelman. App myös muodostaa reportin. Luo App käytööhje soveluksesta ecoControl App! Termostaatti johon yhteys on muodostettu vilkuttaa punaista valoa.

5 Virhetilat

Kun punainen ja vihreä valo vilkkuvat on termostaatti virhetilassa. Tyyppilisissä tilan on etätä kellonaikaa menetetty pitkän sähkökatkon takia. Tämä virhetilanne korjaantuu automaattisesti kun tuooteeseen otetaan yhteys ecoControl App soveluksesta. Käytä ecoControl App sovellusta lukeaksesi muiden virhetilojen koodit. Käytelyt koodit ovat:

- 1 Lattia-auturi virhe
- 2 Sisäinen yllälämpö
- 3 Muu sisäinen vika
- 10 Kellonaika on menetetty

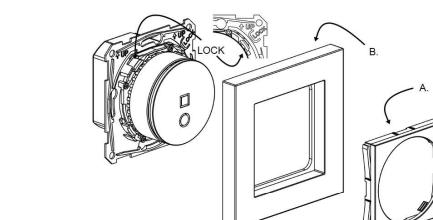
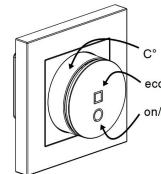
Virhekoodi kannattaa yrittää poistaa käyttämällä ecoControl App sovelukseen 'reset' toimintoa.

Virhetiloissa 1, 2, 3 lämmittävä ei kytketä päälle lainkaan. Virhetilassa 10 termostaatti käytää nupilla asetettua lämpötilaa.

Bruks- och monteringsanvisning

BLE TERMOSTAT – MONTERING TEKNISKA DATA

Bluetooth: Version 4.2
Driftsspänning: 230V - 50Hz
Belastning: 16A [resistivinen]
Temperaturområde: +5°C/+35°C
Extern styrning: 230V - 50Hz
IP-klass: IP21
Färg: Vit
Givare: Inbyggd rumsgivare. Extern golvgivare NTC



MONTERING

Produkten får endast monteras av en auktoriserad och kompetent montör enligt lokala bestämmelser.

Kontrollera att ströminmatningen är spänningsfri före montering.

Börja med att ta loss centrumplattan (A) genom att trycka ned knoppen till bottnen [C°] och samtidigt vrinda den moturs. Pä det här sättet avlägsnas all fästkraft från ramen (B) och centrumplattan.

Anslut ledningarna till termostatens uttag: SETBACK: Extern styrning (om den används), HEATING (N): N-ledning för värmeanordning, N: N-ledning för matning, FLOOR SENSOR: Golvgivare NTC, HEATING (L): L-ledning för värmeanordning, L: L-ledning för matning.

Fäst sedan termostaten i monteringsdosan med 2-4 skruvar. Kontrollera att fästklorna är i läget 'LOCK'. Flytta vid behov till läget 'LOCK' genom att trycka med en skruvmesjal. Tryck centrumplattan till önskat djup. Ta isär monteringen vid behov genom att trycka ned knoppen hårt i bottnen och samtidigt vrinda den moturs.

START

Vid första starten identifierar termostaten om golvgivaren är ansluten. Fabrikinställningarna bestäms automatiskt enligt detta på följande sätt:
Funktionsutrymme: Golv/Rum
Golvtemperatur min: 5°C/ej i bruk
Golvtemperatur max: 35°C/ej i bruk
Produktnamn: Slumptal
Veckoprogrammets eco-temperatur: 19°C
Den externa styrningens eco-temperatur: 19°C
Golvskalibrering: -6°C
Rumskalibrering: 0°C
Rumstemperatur min: 5°C
Rumstemperatur max: 28°C
PWM min: 0%
PWM max: 100%
Ventilskydd: OFF
NTC typ: 10k ohm
Led-styrka : 100%
Veckaprogram : OFF

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