

Brezžični termostat / Wireless thermostat

 **SASWELL T19WHB-7-RF**



CE

Uporabniški priročnik  
User manual

# SI | Uporabniški priročnik

Termostat Saswell T19WHB-7-RF je brezžični programski termostat (oddajna enota) za upravljanje ogrevalnih sistemov. je brezžični programski termostat za upravljanje ogrevalnih sistemov. Termostat se lahko uporabi v kombinaciji s SASWELL SCU210DE, SCU209DE, 2011DE s katerimi se izvaja brezžična komunikacija (868MHz). Sprejemnik upravlja funkcijo povezave in preklapljanje sistemov, termostat (oddajna enota) pa omogoča regulacijo in nastavitve temperatur. Sistem omogoča brezžično, preprosto in udobno uporabo vašega ogrevalnega sistema. Možna je nastavitve programske ure ogrevanja za 7, 5+2, 5+1+1 dni in s 4 oz. 6 preklopi na dan.

Navodila za uporabo in vzdrževanje so del splošnih prodajnih pogojev. Pridržujemo si pravico do sprememb detajlov, tehnologije in izvedbe. Garancija velja le skupaj z računom. Dopuščamo možnost napak v tekstu.



## Varovanje narave

Elektronske naprave in baterij po koncu življenjske dobe ne odlagajte med mešane komunalne odpadke temveč uporabite zbirna mesta ločenih odpadkov. S pravilno odstranitvijo izdelka boste preprečili negativne vplive na človeško zdravje in okolje. Reciklaža materialov prispeva varstvu naravnih virov.

Več informacij o reciklaži tega izdelka Vam ponudijo upravne enote, organizacije za obdelavo gospodinjskih odpadkov ali prodajno mesto, kjer ste izdelek kupili.

## **Pomembna opozorila pred prvo uporabo, namestitvijo in vzdrževanje naprave:**

Pred prvo uporabo pozorno preberite navodila za uporabo ne samo termostata, ampak tudi peči ali klimatske naprave.

- Pred inštalacijo termostata izklopite dovod električnega toka!
- Priporočamo, da inštalacijo opravi kvalificiran delavec!
- Električni krog mora biti zavarovan z varovalko, ki ne presega tokovne obremenitve ožičenja (max 16A).
- Pri montaži upoštevajte vse varnostne predpise
- Izdelka ne izpostavljajte neposredni sončni svetlobi, ekstremnemu mrazu, vlagi in naglim spremembam temperature. To bi znižalo natančnost merjenja temperature
- Izdelka ne nameščajte na mesta, ki so nagnjena k vibracijam in pretresom – to lahko povzroči poškodbe
- Izdelka ne izpostavljajte prekomernemu tlaku, sunkom, prahu, visokim temperaturam ali vlagi saj le te lahko povzročijo poškodbe na kateri izmed funkcij izdelka, krajšo energetske vzdržljivost, poškodbo baterij in deformacije plastičnih delov
- Izdelka ne izpostavljajte dežju ali vlagi, kapljajoči in brizgajoči vodi
- Na izdelek ne postavljajte virov ognja, npr. prižgane svečke ipd.
- Izdelka ne postavljajte na mesta, kjer ni zadostnega kroženja zraka
- V prezračevalne odprtine ne vtikajte nobenih predmetov
- Ne posegajte v notranjo električno napeljavo izdelka – lahko ga poškodujete in s tem prekinite veljavnost garancije. Izdelek sme popravljati le usposobljen strokovnjak
- Za čiščenje uporabljajte zmerno navlaženo blago krpo. Ne uporabljajte raztopin ali čistilnih izdelkov – lahko poškodujejo plastične dele in električno napeljavo
- Izdelka ne potaplajte v vodo ali v druge tekočine
- Pri poškodbah ali napaki izdelka ne popravljajte sami. Predajte ga v popravilo prodajalni, kjer ste ga kupili
- Izdelka ne smejo uporabljati osebe (vključno otrok), ki jih fizična, čutna ali mentalna nesposobnost ali pomanjkanje izkušenj, in znanj ovirajo pri varni uporabi naprave, če pri tem ne bodo nadzorovane, ali če jih o uporabi naprave ni poučila oseba, ki je odgovorna za njihovo varnost
- Nujen je nadzor nad otroki, da bo zagotovljeno, da se ne bodo z napravo igrali.

Za izdelek je bila izdana izjava o skladnosti. Ta in ostala dokumentacija je dostopna na spletni strani [www.sen-controls.eu](http://www.sen-controls.eu). Proizvajalec izdelka je SASWELL CONTROLS (HONGKONG) LTD.

Uvoznik in distributer za Saswell je Sen Controls d.o.o., Belokranjska cesta 29, 8340 Črnomelj, Slovenija

## Lastnosti

- Neodvisnost od žične povezave
- Povezljivost RF dosega do 100 metrov
- Moderen Piano Black design izgled s tipkami na dotik (touch screen) z velikim in preglednim LCD ekranom
- Zaklep termostata
- Prikaz ure in trenutnega dneva
- Ohranitev vseh nastavitv ob izgubi napajanja oz. ob zamenjavi baterij
- Možnost vklopa počitniškega delovanja in začasne spremembe nastavitve temperature, za večje udobje oz. varčevanja z energijo
- Možnost programiranja urnika ogrevanja za vsak dan posebej (7 dni) ali ločene delovne dneve (5 dni) in vikende (2 dni), s štirimi ali šestimi različnimi časovnimi in temperaturnimi nastavitvami (7, 5+2, 5+1+1 / 4, 6)
- Možnost kalibracije temperature
- Opozorilo za zamenjavo baterije
- Zaščita proti zmrzovanju

## Specifikacije enote

Napajanje: Baterije 4xAAA LR03 1.5V

Nastavitev temperature: od 5°C do 35°C

Prikaz temperature: od 5°C do 40°C

Natančnost:  $\pm 0.1^{\circ}\text{C}$

Temperatura okolice delovanja: od 0°C do 50°C

Skladiščna temperatura: od -10°C do 60°C

Dimenzije: 124x88x21mm

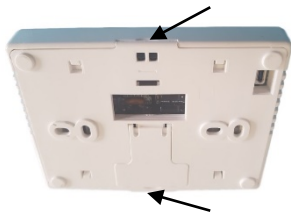
Povezava: Radijska frekvenca RF 868 MHz, FSK

## Namestitev termostata

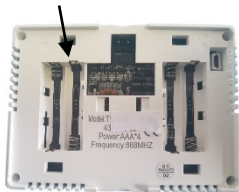
Namestitev naprave naj opravi kvalificirana oseba! Pred namestitvijo obvezno preberite vsa navodila za uporabo in varnostna opozorila navedena v teh navodilih in navodilih preostalih naprav, ki so povezane v sistem in omrežje.

### Vstavitev baterij

1. Termostat vzemite v roke in previdno odstranite pokrov baterij na zadnji strani tako, da navzdignete na označenih mestih (spodaj in zgoraj). 2. Nato pravilno vstavite štiri nove alkalne baterije LR03 1.5V v predel za baterije. 3. Sedaj namestite zadnji pokrov nazaj na svoje mesto.



1



2

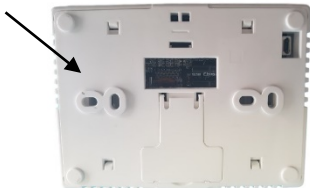
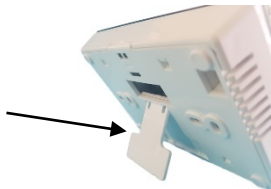


3

## Postavitev

Za postavitev termostata lahko uporabite priročno stojalo, vgrajeno v baterijski pokrov. Ta način vam omogoča prenosljivost termostata kamorkoli po prostoru.

Lahko ga tudi namestite na steno, prav tako s pomočjo baterijskega pokrova, na kateremu so pripravljene luknje s standardnimi dimenzijami. V tem primeru je termostat vedno na istem mestu.



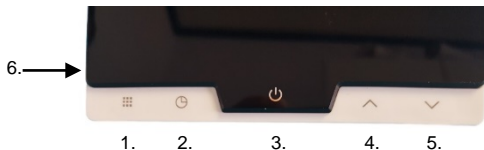
V katerem koli primeru postavitve bodite pozorni, da termostat ne postavite v bližino vira vročega ali hladnega zraka, sijanju sonca, prepihu, da je oddaljen vsaj 30cm od kovinskih delov in vsaj 1 meter od ostalih elektronskih naprav. Če ga montirate na steno, je najbolj optimalna višina montaže na višini 150cm od tal, vsaj 20cm stran od vrat, oken, omar in podobno ter da je nameščen notranji steni.

Če ne upoštevate teh priporočil, se zna zgoditi, da termostat ne bo deloval pravilno. Ali zaradi motenj signala (električni viri, železni deli, ...) ali zaradi napačnega branja temperature (prepihi, sonce, prehladno ali prevroče mesto postavitve,...).

## Opis termostata

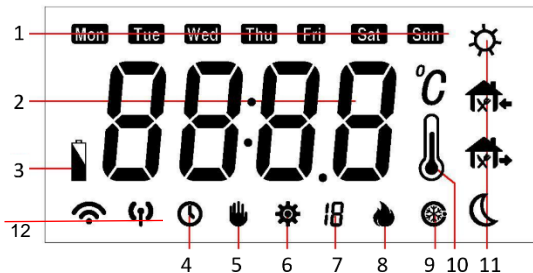
### Tipke

1. Tipka za nastavitve termostata / urnika programov ogrevanja
2. Nastavitev ure
3. Tipka za vklop / izklop / potrditev
4. Povišanje vrednosti
5. Zmanjšanje vrednosti
6. Tipka za prebuditev ekrana



### Ekran

1. Prikaz trenutnega dneva v tednu / Izbira dneva, dni v nastavitvah
2. Glavni prikaz (temp., ura, nastavitve,..)
3. Opozorilo za zamenjavo baterije
4. Uporaba urnika programa ogrevanja / Urejanje ure, datuma
5. Začasna / konstantna nastavitvev temperature
6. Urejanje nastavitvev
7. Prikaz trenutnega koraka pri urejanju nastavitvev
8. Delovanje ogrevanja
9. Proti zamrzovalna zaščita
10. Simbol za trenutni prikaz temperature
11. Prikaz programov ogrevanja
12. Prikaz povezave (samo za določene modele T19)



## Opis funkcij in delovanje termostata

Za lažje razumevanje opisa vseh funkcij in delovanja termostata, imejte prejšnjo stran, kjer je opis ekrana in tipk, kot referenco, saj se vsi opisi navezujejo na oznake (številke).

### Opozorilo za slabo baterijo

Ob začetku uporabe termostata vedno vstavite uporabite nove alkalne in ne polnilne baterije. Ko se pojavi simbol za zamenjavo baterij, bodo le te delovale še v povprečju 30 dni. Sama življenjska doba baterij je odvisna od pogostosti uporabe termostata in same kvalitete baterij. V primeru, da termostata ne boste uporabljali dalj časa, Vam priporočamo, da odstranite baterije iz termostata. Tako preprečite možnost poškodbo naprave v primeru izlitja baterijskega vložka ali zgolj podaljšate življenjsko dobo baterij.

### Začasna sprememba temperature













V primeru da uporabljate urnik programov ogrevanja ali vam le ta trenutno ne ugaja, samega programa pa ne bi spreminjali, lahko začasno spremenite temperaturo ogrevanja. Ta se obdrži do naslednjega preklopa v programu ogrevanja. Funkcijo aktivirate preprosto s kratkim pritiskom na tipko **▲** ali **▼**. Na ekranu se prikaže trenutno nastavljena temperatura. To nastavljajte s tipkami **▲** ali **▼** do željene temperature. Ko je funkcija aktivirana, se na ekranu prikaže simbol **▲** in **▼**. Funkcija se samodejno izklopi ob naslednjem preklopu programa ogrevanja ali s pritiskom na tipko **☰**.

### Stalna, konstantna sprememba temperature





V primeru da uporabljate urnik programov ogrevanja a vam le ta trenutno ne ugaja, samega programa pa ne bi spreminjali, lahko spremenite temperaturo ogrevanja do vašega izklopa. To pride tudi prav v primeru počitnic oz. vaše daljše odsotnosti in želite zmanjšati temperaturo kar se da. Funkcijo aktivirate preprosto s kratkim pritiskom na tipko **☰**. Na ekranu se prikaže trenutno nastavljena temperatura. To nastavljajte s tipkama **▲** ali **▼** do željene temperature. Če ne uporabljate urnika programov ogrevanja, je na voljo le opcija stalne spremembe temperature in jo preprosto spreminjate s tipkama **▲** ali **▼**. Termostat v tem primeru deluje kot dnevni.




## Nastavitev ure

Ko je termostat prižgan s kratkim pritiskom na tipko  preidete v meni ure. Tukaj se vam najprej pokaže trenutni čas (ura in datum). Če na kratko pritisnete tipko  še enkrat, začnejo utripati minute kar pomeni da sedaj nastavljate minute. S tipkama  in  spreminjate vrednost. Ko ste nastavili minute, na kratko pritisnite tipko  in preidete v urejanje ure. Sedaj utripa ura in zopet s tipkama  in  spreminjate vrednost. Ko končate s urejanjem ure, zopet pritisnite na kratko tipko  in prešli boste v urejanje trenutnega dneva. Dnevi so prikazani v angleščini in sicer Mon (Ponedeljek), Tue (Torek), ... Fri (Petek), Sat (Sobota), Sun (Nedelja). S tipkama  ,  nastavite željen dan in potrdite s tipko  . Termostat samodejno shrani vse vrednosti, če ne pritisnete nobene tipke v roku 5 sekund ali če pritisnete tipko  .

## Vklop, izklop termostata ter spanje ekrana

Če je termostat popolnoma izključen, ga lahko preprosto vklopite s kratkim pritiskom na tipko  . Če ga želite popolnoma izklopiti, zbudite ekran in držite tipko  dalj časa, da se na ekranu prikaže napis "OFF". Zgolj ekran gre zaradi varčevanja z baterijo samodejno v spanje. To se zgodi v primeru neuporabe oz. če ni nobenega pritiska na tipke v roku, ki ste ga nastavili v naprednih nastavitvah – privzeto je 10 sekund. Ekran lahko tudi sami predčasno izklopite s kratkim pritiskom na tipko  ali 6. Termostat v ozadju še vedno deluje in ekran lahko kadarkoli zbudite s stransko tipko 6 ali kratkim pritiskom na tipko  .

## Parjenje oz. povezava termostata s sprejemnikom in test komunikacije

Napravi sta privzeto že povezani. Če se zgodi da povezava ni aktivna ali ste kupili napravo posamezno, opravite postopek parjenja. Postopek: Preberite navodila za parjenje v navodilih sprejemnika. Vzpostavite sprejemnik v način parjenja. Izklopite termostat, da se na ekranu izpiše OFF. Držite tipko  za 3 sekunde. Na ekranu se najprej izpiše "-" . Ko se napravi sparita, se na ekranu prikaže "1". Postopek je končan. Obe napravi vklopite. Sedaj lahko opravite test komunikacije tako, da na termostatu povišate in znižate temperaturo ogrevanja – sprejemnik bi moral komunikacijo potrditi z utripanjem in vklopom oz. izklopom ogrevanja.

## Zaščita proti zmrzovanju

Opcija je privzeto izključena. Vključite jo preko naprednih nastavitvev termostata. Opcija skrbi, da če temperatura prostora pade pod 5°C, poda termostat sprejemniku ukaz, da vključi črpalko oz. sproži način ogrevanja dokler le ta ne doseže temperature 8°C.

### Možne napake

- Če se zgodi, da pride do okvare termostata, bo le ta na ekranu prikazal napis roomERR.
- Če mislite, da je prikaz temperature termostata napačen, si jo prilagodite s korekcijo temperature v naprednih nastavitvah termostata.
- Če sprejemnik ne reagira na noben ukaz termostata, izklopite obe napravi in jih ponovno prižgite. Če napaka ni odpravljena, ponovite parjenje naprav.

## Urniki programov ogrevanja


Termostat ima možnost nastavitve urnikov programa ogrevanja in sicer za:




- sedem dni (vsak dan ima svoj program),
- 5 + 2 dni (ponedeljek – petek, vikend),
- 5 + 1 + 1 (ponedeljek – petek, sobota, nedelja)






ter 4 ali 6 dnevni preklpov. Torej, za vsak dan oz. dneve lahko nastavite 4 ali 6 različnih temperatur ob različnih urah.

Privzeto je urnik programov ogrevanja izklopljen in lahko nastavljate le stalno temperaturo. Vklopite ga v naprednih nastavitvah. Tam lahko tudi spreminjate delovanje urnika in število preklpov. Ko je vklopljen, so aktivirani privzeti urniki. Za podrobnosti, si oglejte tabele na naslednjih straneh. Le te si lahko spremenite po vaših željah. Navodila so opisana pod Urejanje urnika programa ogrevanja.

### Urejanje urnika programa ogrevanja





Ko je termostat prižgnan, in v naprednih nastavitvah izbran zelen način urnika programov ogrevanja, zbudite ekran in držite tipko  vsaj 5 sekund – tako preidete v urejanje programov.

Programne urejate s tipkami: Tipka  vas premika med opcijami (dan, ura preklopa, temperatura, naslednji prekop,...), tipki  in  pa služita spreminjanju vrednosti. Simbol trenutnega preklopa, katerega urejate, se osvetli na desni strani (glej opis ekrana 11).







Na ekranu se vam osvetli več možnosti. Najprej vam utripajo dnevi oz. trenutni dan urejanja (glej opis ekrana 1). Če želite, lahko takoj preidete na urejanje drugega dneva oz. dni, s pritisko na tipko  ali . Če želite pa lahko pritisnete tipko  in preidete v urejanje začetka ure preklopa tega dneva oz. teh dni. Ob ponovnem pritisku na tipko  preidete v nastavitve zelene temperature in na to ste končali z urejanjem prvega preklopa za izbran dan oz. dneve. Ko zopet pritisnete tipko  preidete v naslednji prekop za urejevalni dan in tako naprej. Ko končate z urejanjem zadnjega preklopa za izbran dan oz. dneve, naprava sama preklopi v urejanje naslednjega dneva oz. dneve.

## Privzete tabele urnikov programa ogrevanja





**Tabela 1 (7 dni, 4 časovni programi, preklopi)**





Ogrevanje	1-Jutro 		2-Odhod 		3-Prihod 		4-Večer 	
Ponedeljek (Mon)	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C
Torek (Tue)	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C
Sreda (Wed)	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C
Čet (Thu)	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C
Petek (Fri)	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C
Sobota (Sat)	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C
Nedelja (Sun)	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C





**Tabela 2 (7 dni, 6 časovnih programov, preklopi)**

Ogrevanje	1-Jutro		2-Odhod		3-Malica		4-Popoldan		5-Prihod		6-Večer	
												
Ponedeljek (Mon)	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C
Torek (Tue)	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C
Sreda (Wed)	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C
Čet (Thu)	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C
Petek (Fri)	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C
Sobota (Sat)	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C
Nedelja (Sun)	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C







**Tabela 3 (5 + 1 + 1 dni, 4 časovni programi, preklopi)**







Ogrevanje	1-Jutro		2-Odhod		3-Prihod		4-Večer	
								
Ponedeljek (Mon)	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C
Torek (Tue)	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C
Sreda (Wed)	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C
Čet (Thu)	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C
Petek (Fri)	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C







Ogrevanje	1-Jutro		2-Odhod		3-Prihod		4-Večer	
								
Sobota (Sat)	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C

Ogrevanje	1-Jutro		2-Odhod		3-Prihod		4-Večer	
								
Nedelja (Sun)	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C





**Tabela 4 (5 + 1 + 1 dni, 6 časovni programi, preklopi)**





Ogrevanje	1-Jutro		2-Odhod		3-Malica		4-Popoldan		5-Prihod		6-Večer	
												
Ponedeljek (Mon)	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C
Torek (Tue)	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C
Sreda (Wed)	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C
Čet (Thu)	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C
Petek (Fri)	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C

Ogrevanje	1-Jutro		2-Odhod		3-Malica		4-Popoldan		5-Prihod		6-Večer	
												
Sobota (Sat)	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C







Ogrevanje	1-Jutro		2-Odhod		3-Malica		4-Popoldan		5-Prihod		6-Večer	
												
Nedelja (Sun)	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C







**Tabela 5 (5 + 2 dni, 4 časovni programi, preklopi)**

Ogrevanje	1-Jutro		2-Odhod		3-Prihod		4-Večer	
								
Ponedeljek (Mon)	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C
Torek (Tue)	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C
Sreda (Wed)	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C
Čet (Thu)	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C
Petek (Fri)	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C

Ogrevanje	1-Jutro		2-Odhod		3-Prihod		4-Večer	
								
Sobota (Sat)	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C
Nedelja (Sun)	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C








**Tabela 6 (5 + 2 dni, 6 časovnih programov, preklopi)**

Ogrevanje	1-Jutro		2-Odhod		3-Malica		4-Popoldan		5-Prihod		6-Večer	
												
Ponedeljek (Mon)	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C
Torek (Tue)	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C
Sreda (Wed)	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C
Čet (Thu)	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C
Petek (Fri)	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C

Ogrevanje	1-Jutro		2-Odhod		3-Malica		4-Popoldan		5-Prihod		6-Večer	
												
Sobota (Sat)	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C
Nedelja (Sun)	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C



## Napredna nastavitve termostata

Za dostop do napredne nastavitve termostata, izklopite napravo z dolgim pritiskom na tipko , da se na ekranu prikaže napis OFF. Nato držite tipko  (3 sekunde) in vstopili boste v napredne nastavitve. Na ekranu se prikaže velik napis trenutne vrednosti in pod tem je prikazan simbol  s številko 1, ki pomeni trenutni korak nastavitve. Po meniju se pomikate s tipko . Vrednosti spreminjate s tipkami  ter . Pritisnite tipko  za shranitev in izhod iz naprednih nastavitvev. Trenutni korak je prikazan spodaj poleg kolesca (glej opis ekrana 6). Razlaga nastavitvev:

Korak	Tovarniška vrednost	Možnosti (vrednost)	Opis
1	0	-4 do +4 °C	Korekcija prikaza temperature
2	35	24 – 35 °C	Najvišja nastavitvev temperature ogrevanja
3	05	5 – 20 °C	Najnižja nastavitvev temperature ogrevanja
4	0.5	0.5-2.0°C	Razpon temperature (histereza): razpon je temperaturna razlika pri vklopu in izklopu. Če npr. nastavite temperaturo na sistemu na 22°C in razpon na 0.5°C začne ogrevalni sistem delovati če temperatura v prostoru pade na 21.5°C in se izklopi ko temperatura doseže 22.5°C.
5	0	0 / 2 / 3 / 7	Opcija programiranja (glej spodnje tabele) 7 : ločena nastavitvev za vsak dan posebej (tabela 1 in 2) 3 : 5 dni + 1 + 1 (tabela 3 in 4) 2 : 5 dni + 2 vikend (tabela 5 in 6) 0 : programi onemogočeni
6	4	4 / 6	Število časovnih programom, preklpov: V enem dnevu imamo lahko 4 ali 6 različnih urnih in temperaturnih režimov. (glej tabele)
7	OFF	ON / OFF	Zaščita proti zmrzovanju
8	10	10/15/20s	Trajanje osvetlitve ekrana v sekundah

# EN | User manual

Thermostat Saswell T19WHB-7-RF is a wireless programmable thermostat for controlling heating systems. The thermostat can be used with SASWELL SCU209DE, SCU210DE and 2010DE. The receiver manages the connection function and system switching while the thermostat enables the temperature control and setting function. The system provides wireless, simple and comfortable use of your heating system. The thermostat can be programmed to a heating schedule of 7, 5+2, 5+1+1 days with 4 or 6 daily switches.

For help you can also check our Youtube channel – Sen Controls.

The instructions for use and maintenance are part of the general terms and conditions of sale. We reserve the right to change the details, technology and performance. The guarantee is valid only with the original invoice. We allow the possibility of errors in the text.



## **Environmental Protection**

Do not place electronic devices and batteries after the end of their life in mixed municipal waste, use collection points of separate waste. By properly removing the product, you will prevent negative effects on human health and the environment. Recycling of materials contributes to the protection of natural resources. More information on the recycling of this product is offered to you by administrative units, household waste treatment organizations or the point of sale where you purchased the product

## **Important notes before first use, installation and maintenance**

Before use, carefully read the manual not only for the thermostat, but also for the Heating device (heat pump, pumps, boilers, etc.) • Turn off the power supply before installing the thermostat! • We recommend that the installation is done by a qualified electrician • the electrical circuit must be secured with a fuse that does not exceed the current load of wiring • Please note all safety instructions before installing • Do not expose the product to direct sunlight, extreme cold, humidity and sudden temperature changes. This would reduce the accuracy of the temperature measurement • Do not place the product in places that are prone to vibrations and shocks - this can cause damage • Do not expose the product to excessive pressure, shock, dust, high temperatures or moisture, as these can cause damage to one of the functions product, shorter energy endurance, damage to batteries, and deformation of plastic parts. • Do not expose the product to rain or moisture, dripping or spraying water. • Do not place any sources of fire on the product, for example, spark plugs etc. • Do not place the product in places where there is insufficient air circulation. • Do not insert any objects into the ventilation openings. • Do not interfere with the internal electrical wiring of the product. It may be damaged and therefore terminate the warranty. The product must only be repaired by a trained specialist. • Use a moderately moistened cloth for cleaning. Do not use solutions or cleaning products - may damage plastic parts and electrical wiring • Do not immerse the product in water or other liquids. • Do not repair it yourself if the product is damaged or defective. Put it in the repair shop where you bought it • The product should not be used by a person (including children) by physical, sensory or mental disability or lack of experience and knowledge impeded by the safe use of the device if they are not controlled, or if they were not informed by the person responsible for their safety about the use of the device • Children's control is necessary to ensure that they do not play with the device.

Declaration of conformity has been issued for the product. This and other documentation is available on the website [www.sen-controls.eu](http://www.sen-controls.eu).

Producer of this product is SASWELL CONTROLS (HONGKONG) LTD.

Importer and distributor for Saswell is Sen Controls d.o.o., Belokranjska cesta 29, 8340 Črnomelj, Slovenia

## Features

- Portability of room thermostat and independence from wire connectivity
- Connectivity between the transmitter and the receiver via wireless radio frequency RF up to a range of 100 meters
- Modern and beautiful Piano Black design with touch screen buttons
- Large and transparent LCD screen
- Preserving schedule and program settings despite losing power
- Holiday, temporary hold and constant hold modes for power saving or greater comfort
- Program scheduling for each day (7 days) or separate working days (5 days) and weekends (2 days), with four or six different time and temperature settings
- Temperature calibration
- Battery replacement warning
- Anti-freeze protection
- Options of installation - On wall installation / In wall installation in a socket / Wireless portability with built in stand

## Specifications

- Power supply: Batteries 4xAAA LR03 1.5V
- Temperature setting range: from 5°C to 35°C
- Temperature display range: from 5°C to 40°C
- Accuracy:  $\pm 0.1^{\circ}\text{C}$
- Ambient temperature: from 0°C to 50°C
- Warehouse temperature: from -10°C to 60°C
- Dimensions: 124x88x21mm
- Connection: Radio frequency RF 868 MHz, FSK

## Thermostat installation

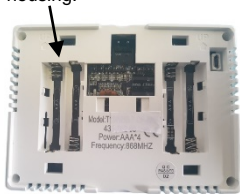
The thermostat installation should be performed by a qualified personnel. Before installation, be sure to read all of the operating instructions and safety notes in these instructions and the instructions of other devices that are connected to the electrical system or the network.

## Battery installation

1. Take the thermostat and carefully remove the battery cover in the back by lifting the cover on marked places (top and bottom)
2. Insert four new alkaline batteries LR03 1.5V in the battery compartment with the correct polarity.
3. Now place the battery cover back on the housing.



1



2

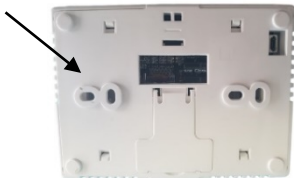
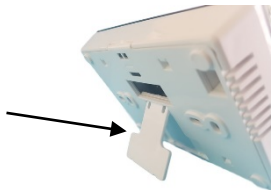


3

## Placing the thermostat

You can use the attached stand on the back of the thermostat for placing the thermostat anywhere in the room. This way enables you complete portability.

The thermostat can also be placed on a wall with the help of the back battery cover, which has standard premade holes for wall and in wall socket installation. In this case of setup, the thermostat is always placed on one place.








In any case of the thermostat installation (on wall or portable), be careful not put it near sources of hot or cold air, direct sunlight, draught or other types of temperature influences. Also, make sure that the thermostat is placed at least 30cm away from metal parts and 1 meter from other electrical devices.

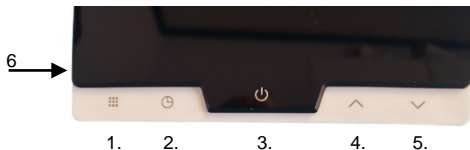
If you mount the thermostat on a wall, the most optimum height for mounting is 150cm and at least 20cm away from the door, windows, cupboards and similar objects. Also, install the thermostat on the inside wall of the house.

If you don't follow these recommendations, it can happen that the thermostat will not function correctly. Because of signal interference (electrical sources, metal parts, ...) or due to incorrect reading of the temperature (drafts, sun, cold or the hot spot, ...).

## Thermostat description

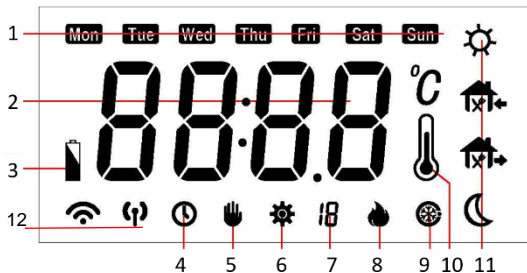
### Buttons

1.  Thermostat setting /Heating program schedule setting button
2.  Hour, day button
3.  Turn ON / OFF / Confirmation button
4.  Increase value
5.  Decrease value
6. Display wake up button



### Display

1. Current day of the week / Setting day, days in the settings and heating
2. Main display (temperature, hour, settings, ...)
3. Low battery warning
4. Using schedule mode / Hour, date setting mode
5. Hold mode (temporary or constant)
6. Advanced settings mode
7. Current step in advanced settings mode
8. Heating is ON when this is displayed
9. Anti-frost protection is ON when this is displayed
10. Symbol for current room temperature display
11. Heating program display
12. Connection display (only in specific T19 models)







## Function and thermostat description

For easier understanding of this user manual, use the previous page, where the display and the buttons are described as a reference. It will be easier to navigate through the whole setting process.




### Low battery warning

Always insert new alkaline and non-rechargeable batteries when using the thermostat. When the battery replacement symbol appears, the thermostat will only work for an average of 30 days. The battery life itself depends on the use frequency of the thermostat and the quality of the batteries themselves. In case you do not use the thermostat for a long time, we recommend that you remove the batteries from the thermostat. This prevents damage to the device if the battery is leaking or simply extends the life of the batteries.

### Temporary temperature change (hold)







In case you are using heating program schedule and you don't like the currently programmed temperatures, you can change the currently set temperature until the next heating program change. You can easily activate this function by short pressing button  or . The display will show the temperature you are setting. When you're happy with the selected temperature, the device will save the value itself after a few seconds or you can short press  button. When this function is enabled, the display will show icon 4 and icon 5 simultaneously – which means heating schedule is on and temperature hold is on. The function turns off automatically when the next heating program is scheduled or by simply pressing the  button.

### Constant, permanent temperature change (hold)



In case you are using heating program schedule and you don't like the currently programmed temperatures, you can change the currently set temperature at your likings. This also comes handy when you're away for a longer time (eg. holiday) and you want to lower the temperature as much as possible for better energy savings. You can easily activate the function by short pressing on the button . Display will show only icon 5. Now you can set the desired temperature by pressing buttons  and . If you want to exit this function, simply short press




## Setting the time and day

When the thermostat is turned on you can view the current time by short pressing button . If you wish to edit the current time and day, short press the same button again. Now you'll see that minutes are blinking, which means that you're currently editing minutes. You can change the values by pressing buttons  and . After you're done setting the minutes, short press  button to move to editing current hour. After you've set current hour, press the  button again and you'll be setting the current day. When done setting time and day, press the  button to exit and save. Thermostat also automatically saves the settings if nothing is pressed for more than 5 seconds

## Turning the thermostat ON and OFF, display sleep


If the thermostat is completely turned off you can easily turn it on by short pressing the  button. If you wish to turn it off, wake the screen and hold the  for at least 3 seconds, until screen shows "OFF".

The screen goes automatically into sleep mode because of energy savings. The thermostat works normally in the background. This happens if no button is pressed for a few seconds or you can manually put the screen to sleep by pressing button 6. You can wake up or put the screen back to sleep by short pressing button 6 or .

Tip – you can change the duration of awake time in the advanced thermostat settings. Default value is 10 seconds.

## Pairing, connecting the thermostat with the receiver SAS2011DE and communication test

The devices are paired by default. If it occurs that the connection is not active or you've purchased this device outside a kit, repeat the pairing procedure.

Procedure: Read the instruction for pairing in the receiver user manual. Put the receiver in to pairing mode. Turn off the thermostat until the display shows OFF. Now hold the  button for 3 seconds. The screen should show "-", which means the thermostat is waiting to be paired. The devices should now automatically pair and the thermostat display should show "1". Procedure is now finished. Turn both of the devices back on. Perform the communication test by increasing and decreasing the set temperature on the thermostat. The receiver should confirm the communication by blinking LED lights and turning on and off the heating.

## Anti-freeze protection

This function is turned off by default. You can turn it on in the advanced thermostat settings.

The function makes sure, that when the room temperature falls below 5°C, the thermostat sends an order to the receiver to turn on the heating (turn on the boiler, pump,...) and it stays on until the room temperature reaches 8°C.

When this function is turned on, display shows icon 9.

### Possible errors

- If the thermostat sensor malfunctions, the display will show "roomERR".
- If you think the temperature displayed on the thermostat is wrong, you can adjust it in the advanced thermostat settings in the "temperature display correction".
- If the receiver is not reacting to any thermostat orders, turn off both of the devices and turn them back on. If the error still stays, repeat the pairing procedure. If nothing helps, call your local shop or the service company (email or phone).

## Heating program schedules


The thermostat has an option of using heating program schedules. Possible programs are:




- seven days (every day has its own program),
- 5 + 2 days (monday – friday, weekend),
- 5 + 1 + 1 (monday – friday, saturday, sunday)





and 4 or 6 daily switches. This means that you can set for each day or days 4 or 6 different temperature at different hours.

By default the heating program schedule is turned OFF and you can only set constant, permanent temperature – same as hold mode. You can turn it on in advanced thermostat settings where you can set at which days the programs run and how many daily switches occur. When the heating program schedules are turned on, the default schedules are set. You can take a look at its values in the next pages and of course you can set the temperatures, switches to your linking's in program editing mode.

## Editing heating program schedules





When the thermostat is turned on and you've selected the desired program mode in the advanced thermostat settings, wake up the screen and hold the  for at least 5 seconds to enter editing mode for heating program schedules.

Editing instructions: Button  moves through the options (day, hour of the switch, set temperature, next switch or day,...) , buttons  and  are used for changing the values. There is also a symbol shown on the right of the screen of which program are you currently editing (screen description 11).







When you enter the edit mode, you see blinking day or days (display description 1). If you want, you can move on to editing the highlighted day or days or change the current days that are blinking by pressing  or . To move into editing selected day values (switches that will happen during selected day or days) by short pressing button . Now you're editing the time when this switch will start. Change the values and press the button  again. Now you're editing the set temperature. Now you've already made the first program change! You can move to edit the next programs the same way

## Default heating program schedule tables





Table 1 (7 days, 4 switches)





Heating	1-Morning		2-Away		3-Back home		4-Night	
								
Monday	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C
Tuesday	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C
Wednesday	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C
Thursday	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C
Friday	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C
Saturday	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C
Sunday	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C





**Table 2 (7 days, 6 switches)**

Heating	1-Morning		2-Away		3-Lunch		4-Afternoon		5-Back home		6-Night	
												
Monday	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C
Tuesday	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C
Wednesday	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C
Thursday	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C
Friday	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C
Saturday	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C
Sunday	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C







**Table 3 (5 + 1 + 1 days, 4 switches)**







Heating	1-Morning		2-Away		3-Back home		4-Night	
								
Monday	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C
Tuesday	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C
Wednesday	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C
Thursday	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C
Friday	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C







Heating	1-Morning		2-Away		3-Back home		4-Night	
								
Saturday	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C

Heating	1-Morning		2-Away		3-Back home		4-Night	
								
Sunday	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C





**Table 4 (5 + 1 + 1 days, 6 switches)**





Heating	1-Morning		2-Away		3-Lunch		4-Afternoon		5-Back home		6-Night	
												
Monday	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C
Tuesday	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C
Wednesday	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C
Thursday	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C
Friday	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C

Heating	1-Morning		2-Away		3-Lunch		4-Afternoon		5-Back home		6-Night	
												
Saturday	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C







Heating	1-Morning		2-Away		3-Lunch		4-Afternoon		5-Back home		6-Night	
												
Sunday	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C







**Table 5 (5 + 2 days, 4 switches)**

Heating	1-Morning		2-Away		3-Back home		4-Night	
								
Monday	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C
Tuesday	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C
Wednesday	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C
Thursday	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C
Friday	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C

Heating	1-Morning		2-Away		3-Back home		4-Night	
								
Saturday	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C
Sunday	6:00	21°C	8:00	16.5°C	18 : 00	21°C	22 : 00	16.5°C







**Table 6 (5 + 2 days, 6 switches)**

Heating	1-Morning		2-Away		3-Lunch		4-Afternoon		5-Back home		6-Night	
												
Monday	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C
Tuesday	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C
Wednesday	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C
Thursday	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C
Friday	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C

Heating	1-Morning		2-Away		3-Lunch		4-Afternoon		5-Back home		6-Night	
												
Saturday	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C
Sunday	6:00	21°C	8:00	16.5°C	12:00	21°C	14:00	16.5°C	18:00	21°C	22:00	16.5°C



## Advanced thermostat settings

To access advanced thermostat settings, turn off the device by waking up the screen and holding the  button for 3 seconds, so that the display shows "OFF". Now, hold the  button for 3 seconds. Now you've entered the advanced thermostat settings and should see a big value on the center of the screen and at the bottom  symbol with number 1 near it. The number shows the current step in which you are of editing the settings. You change the values by pressing  or . Settings are automatically saved if nothing is pressed for a few seconds or by pressing the  button.

### Settings explanation:

Step	Factory value	Set value	Description
1	0	-4 do +4 °C	Temperature display correction
2	35	24 – 35 °C	Maximum heating temperature
3	05	5 – 20 °C	Lowest heating temperature
4	0.5	0.5-2.0°C	Temperature range: temperature difference between switching on and off. If, for example, the temperature on the system is set at 22 ° C and the range at 0.5 ° C the heating system starts to operate if the room temperature drops to 21.5 ° C and switches off when the temperature reaches 22.5 ° C. Hysteresis.
5	0	0 / 2 / 3 / 7	Programming mode (see the tables) 7 : Separate setting for each day (Table 1 in 2) 3 : 5 days + 1 + 1 (Table 3 in 4) 2 : 5 days + 2 weekend (Table 5 in 6) 0 : Heating programming schedule disabled
6	4	4 / 6	Number of time programs (switches): In one day you can have 4 or 6 different hour and temperature regimes.
7	OFF	ON / OFF	Anti-freeze protection
8	10	10/15/20s	Display ON in seconds