

# ecolec®

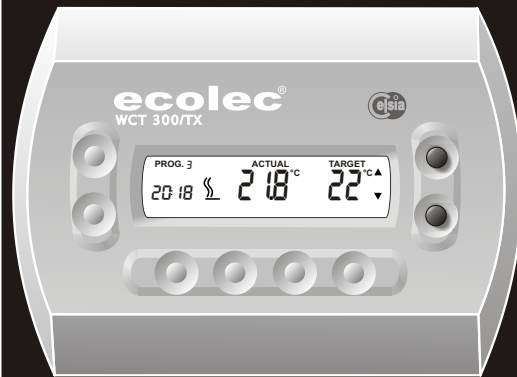
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The CZC3 complies with the essential requirements of directive 1999/5/EC. A copy of the declaration of conformity can be obtained by contacting Ecolec.

V4

# ecolec®

WCT 300/TX  
 wireless thermostat with  
 landlord-set program and  
 self setting clock



## Your heater (single light)

Your heater has a control light which may be  
 green - when no heat is needed to maintain the  
 room temperature  
 yellow - when some heat is needed to maintain the  
 room temperature  
 red - when the heater is on at full power or  
 running at factory set surface control  
 temperature (Panel heater only)

### Manual Control (Panel heater only)

When you switch the heater on it simply heats up to its  
 factory set surface temperature. The red light is always on.

### Remote Control (Panel and Fan heater)

The WCT 300/TX sends a radio signal every minute. When  
 the heater receives the signal, the light winks off briefly and  
 may change colour. When you switch the heater on, the light  
 is always green until the first signal.  
 A slow flashing green light means that, for  
 5 minutes, no WCT 300/TX radio signals  
 have been received. Follow the steps in *START HERE* to fix  
 this.

## Your heater (dual lights)

Your heater has a red and a green light. The green light  
 depends on the type of control described below.

### Manual Control (Panel heater only)

When you switch the heater on it simply heats up to its  
 factory set surface temperature. The green light is always on.

### Remote Control (Panel and Fan heater)

After following the steps in *START HERE* to connect your  
 heater, your heater will now be under the WCT 300/TX  
 control.

The panel heaters green light is normally off and the red light  
 shows whether the heater's element is on or off (it cycles on  
 and off to maintain the correct temperature).

The fan heater's red light is on when the heater's first  
 element is on and the green light is normally on when the fan  
 and second element are on but it also flashes in various  
 patterns:

### Two flashes means

the heater has just received a radio message from the WCT  
 300/TX, adjusting its power output. It will not heat until it has  
 received one of these. They happen about once a minute.

After reception there may be several seconds before the  
 element actually switches on.

Repeated flashes are  
 shown during connection. See *START HERE*.

## START HERE

Once installed, your heater is controlled by a Celsia Zone  
 Controller, WCT 300/TX. The WCT 300/TX is a wireless  
 (433MHz) thermostat giving high precision room temperature  
 control. It has a 24 hour program typically set by the landlord  
 leaving the end user with the ability to make simple  
 adjustments. It has Automatic Time Setting so no  
 maintenance is needed when the clocks change. Each WCT  
 300/TX can control any number of heaters.

### 1 Batteries

Remove the WCT 300/TX's battery cover and  
 insert 2 new high quality alkaline AA batteries.

#### WARNING

The WCT 300/TX manufacturer is not responsible for  
 damage due to corrosion. Battery leakage will cause  
 permanent damage. To help avoid this:

- Replace the batteries annually, even if there is not a low  
 battery warning. Remove failing or flat batteries  
 immediately.
- Always fit a pair of new high quality alkaline batteries from  
 the same pack. Never mix new and old batteries, or  
 batteries of different brands or types.
- Never attempt to revive alkaline batteries by heating,  
 crushing or recharging.

You must reset the clock after replacing the batteries, but all  
 other settings are unaffected.

### 2 You must make a wireless connection between your heater and your WCT 300/TX

Now that it's connected you shouldn't ever have to do it again,  
 though you may also wish to follow this procedure if you add  
 more heaters or move your heater to another WCT 300/TX.

### 3 Choosing a position in the room

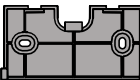
The WCT 300/TX should be positioned on the wall in a  
 place where its temperature will not be changed by local  
 effects. Avoid:

- Draughty places near windows, doors and vents.
- Places near the heater itself or any other heat sources in  
 the room.
- Places where the sun will shine on it.
- Places where, for example, it could be hit by a door.
- Places where it may get wet.

Before permanently fixing it, hold the WCT 300/TX in the  
 chosen position and use ▲ to make the power bars  
 appear (See *User adjustment* for more details). Check  
 that the heater turns on. If it does not, consider a different  
 position.

### 4 Fixing your WCT 300/TX to the Wall

Remove the wall plate from the rear  
 of the WCT 300/TX and mark through the  
 screw holes on the rear (60 mm centres).  
 Drill and plug the wall to accept No. 6 or No. 8 screws and  
 mount the wall plate. Clip the WCT 300/TX back onto the wall  
 plate.



## Cleaning the WCT 300/TX

Clean the WCT 300/TX only with a soft, lint-free cloth. Avoid  
 getting moisture on buttons or openings. Do not use spays,  
 liquids or abrasives; doing so may damage the WCT 300/TX.

## Reverting to manual control

If for any reason you want to use your panel heater without  
 the WCT 300/TX, it can operate independently (a fan heater  
 cannot). To revert to Manual Control:

1. If the panel heater is on, switch it off.
2. Switch it on for three seconds then off again. Do this 5  
 times and your heater will be back to manual control.

## Time and program

PROG. 3  
20:18 Here you can see the current time. PROG shows which step of the program it is currently on.

## Automatic time set

When you insert the batteries the WCT 300/TX automatically sets its clock from the MSF signal transmitted from Anthon Radio Station in Cumbria. The WCT 300/TX also re-synchronises its clock at 2:05am each morning so that it stays accurate and is updated automatically after the clocks change.

The displayed clock flashes before it is set. Digits stop flashing from left to right as the signal is successfully received until the clock is set.



If it has not succeeded after 3 minutes it stops trying but will retry each hour until the clock is set. You can force a retry by re-inserting the battery. If it does not succeed:

- Leave the WCT 300/TX alone. Moving or handling it can interfere with the signal. The signal is stronger at night.
- Try a different location. Objects such as televisions, electric motors and fluorescent lights can interfere with the signal.
- Large metal objects such as a steel-framed or reinforced concrete building, metallic window frames, pylons, scaffolding or overhead power cables can reduce the signal.
- Try rotating it. The reception quality may depend on how the WCT 300/TX's internal antenna is aligned to Anthon.
- The MSF signal is taken off-air a few times a year for maintenance work, so try again later.

If you cannot get a signal you can always set the clock manually.

## Power and transmit symbols



As your room reaches the target temperature, heating is reduced from 100% 4 bars to 0% no bars.

The radio transmit symbol appears whenever the WCT 300/TX transmits to your heater. This happens about once per minute.

## Actual and target temperature

Actual is a thermometer showing the room temperature. Target is the temperature you would like. It is set manually or by the program and can be -- when no heating is needed.



## User adjustment

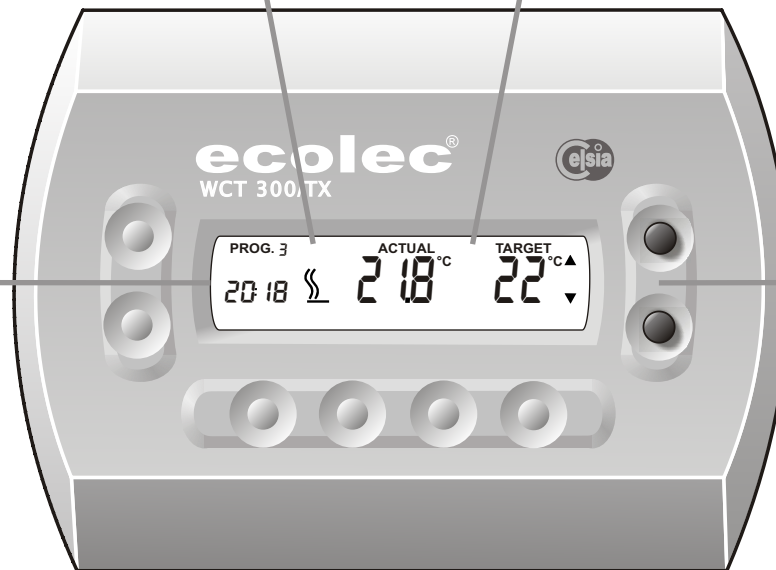
You can use ▲ and ▼ to alter the temperature. The effect is temporary. It reverts to program temperature on the next PROG.



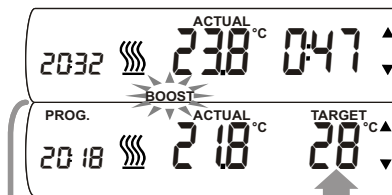
You can choose any temperature between 16°C and 28°C or -- for no heating.

Pressing ▲ from 28°C takes you to BOOST. The heating goes to full power for 1 hour pressing ▲ again will increase the BOOST time by an hour up to 4 hours. You will see the remaining minutes counting down. After the hour or when you press ▼ it reverts to the program temperature.

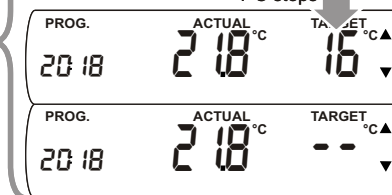
Pressing ▼ from -- takes you to HOLIDAY (room not occupied). Heating is controlled to 4°C (frost protection). The program is suspended until you press ▲.



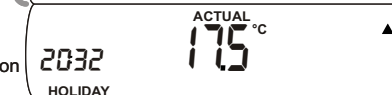
BOOST full power



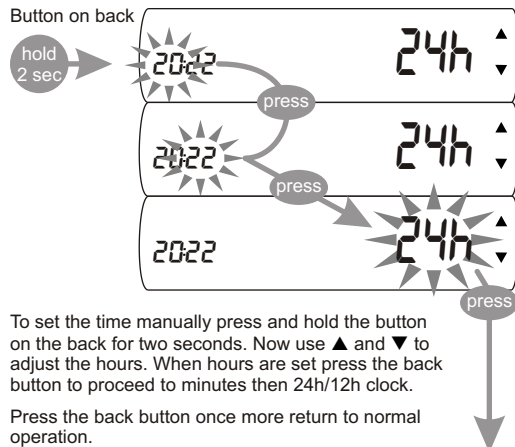
Controlled to Target temperature



HOLIDAY frost protection



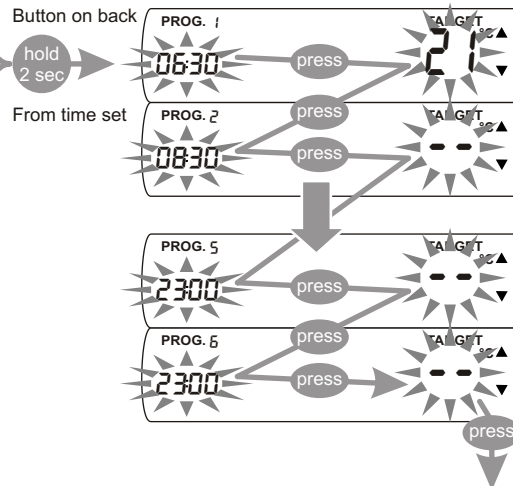
## Manual time set



To set the time manually press and hold the button on the back for two seconds. Now use ▲ and ▼ to adjust the hours. When hours are set press the back button to proceed to minutes then 24h/12h clock.

Press the back button once more return to normal operation.

## Altering the program



To set the program first enter *Manual Time Set* by holding the back button for 2 seconds then, after releasing it, press and hold it for a further 2 seconds.

You can now adjust PROG.1's start-time using ▲ and ▼.

Proceed to PROG.1's temperature by pressing the back button and adjust it using ▲ and ▼. Pressing the back button again takes you to the start-time then temperature of PROG.2, PROG.3, PROG.4, PROG.5 and PROG.6.

Once you have adjusted the temperature on PROG.6, press the back button once more to return to normal operation.

To ensure that the program runs in sequential order, you will find that you cannot, for example, set PROG.2's start-time to an earlier value than PROG.1's.

If you do not need all six PROGS, you set start-times to the same value. For example see PROG.4, PROG.5 of the *Factor set program*.

## Factory set program

If the program has never been set on a new WCT 300/TX it will use the factory set program:

On each day the target temperature is 21°C from 6:30am to 8:30am, then 4°C (frost protection) until 4:30pm, then it is 22°C until 11:00pm and finally 4°C until PROG.1 the next day.

PROG.1	06:30	to	08:30	21.0°C
PROG.2	08:30	to	16:30	--°C
PROG.3	16:30	to	23:00	21.0°C
PROG.4	23:00	to	23:00	--°C*
PROG.5	23:00	to	23:00	--°C*
PROG.6	23:00	to	06:30	--°C

\* The factory set program only uses four of the six PROGS. PROG.4 and PROG.5 are spare. They are ignored because they are followed by a PROG with the same start-time.