

QUICK GUIDE

More information at www.CTSmall.eu and www.support.CTSmall.eu

1 Start:

- Activate the attached SIM card, the number will be provided after activation. The number you have been given must be used when sending SMS to CTSmall!
- Insert the SIM card (see Point 7) into the side of the CTSmall (remember to turn it the right way). Push it into place with your fingernail.
- The SYS LED starts flashing.



2 Connect the USB power supply:

- The USB power supply is connected to the CTSmall and the main power.
- CTSmall connects to the network after about 40 seconds.
- The SYS LED will flash green every 3 seconds.
- If it flashes red, something may be wrong.

3 Signal strength and SMS control:

- The signal strength is flashed with the SYS LED every 10 seconds.
- The signal strength must be stable with at least 2 short green flashes in the SYS LED.
- If you see a short red flash every 10 seconds, the signal strength is bad!
- The signal strength is displayed as needed, but only for 10 minutes, after that you only see a short green flash every 3 seconds.



3a SMS control:

- Send an SMS to the provided number from the SIM card with the message: 1234, Status
- You must now receive an SMS back from CTSmall.
- The SYS LED flashes green quickly when CTSmall receives and sends an SMS.
- If CTSmall flashes red, something may be wrong.

4 Prepare CTSmall with SMS:

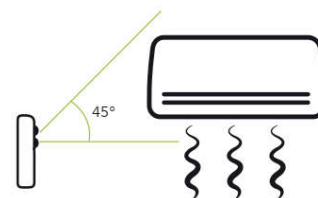
- Find the brand code for your heat pump at www.support.CTSmall.eu/brand
- To see which heat pumps your CTSmall supports, send the following SMS: 1234,Brand
You will now receive an SMS showing the correct notation and the active Brand in CTSmall.
- If you have an LG heat pump, send the following SMS: 1234,Brand,LG
You must now receive an SMS return with Active:LG.
- Give your CTSmall a name, e.g. »MyHouse« Send the following SMS: 1234,Name,MyHouse (no æøå or special characters).
- To receive alarms for temperature and power failure, you must enter at least one mobile number (remember country code, in DK +45), send the following SMS: 1234,PhN1,+4512345678

5 Prepare CTSmall with app:

- CTSmall must be able to receive and send an SMS before you set it up with the app, see Point 3.
- Download the free app from www.CTSmall.eu.
- Select language.
- Enter the mobile number of your CTSmall (remember the country code, in DK +45).
- Keep the code 1234
- Select your heat pump brand from the list.
- Give CTSmall a name (not æøå or special characters).
- Enter at least one mobile number to receive SMS alerts (remember country code, in DK +45).
- Press "Add" and send the SMS. Wait for confirmation via SMS.
- Important: If you do NOT receive an SMS, something is wrong.

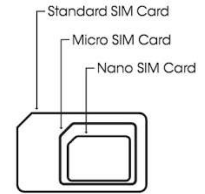
6 Mount CTSmall:

- Mount CTSmall on the wall with the IRLED facing directly towards the heat pump.
- The two LEDs have a combined field of view of 45°.
- Check that you can switch your heat pump on and off with CTSmall, see Point 9.



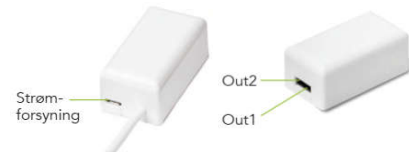
7 SIM cards:

- You need a large/standard SIM card!
- CTSsmall uses SMS on 4G (CAT.M) or the 2G network.
- The 4G (CAT.M) technology provides good coverage even in problematic areas.
- We recommend that you use the attached SIM card. Some providers have problems with SMS on 4G (CAT.M). If you choose a SIM card other than the one supplied, problems may occur!
- For more information see: www.CTSsmall.eu and www.support.CTSsmall.eu



8 Relay box (not included):

- The relay box is connected to the CTSsmall and the power supply is connected to the relay box.
- More information at: www.support.ctsmall.eu/relay



9 SMS commands:

- 1234,Heat,8 (the pump is now set to heat at 8°). Values: 0, 8, 10, 16-24 (0=OFF)
- 1234,Heat,22 (the pump is now set to heat at 22°)
- 1234,Cool,18 (the pump is now set to cooling at 18°)
- 1234,Heat,0 (stop pump)
- 1234,Cool,0 (stop pump)
- 1234,Low,10 (alarm at less than 10°). Values: 0-30 (0=OFF)
- 1234,High,17 (alarm at more than 17°). Values: 1-45
- 1234,Name,MyHouse (give CTSsmall a name. Do not use æøå or special characters)
- 1234,PhNX,+4511111111 (insert emergency number. X can be 1,2,3,4. Remember country code, in DK +45)
- 1234,Brand,Toshiba (see a complete list on our website)
- 1234,Brand (shows all supported brands and correct notation)
- 1234,TCal,-2 (adjust the internal temp. sensor, -5° til +5°)
- 1234,Status (general status)
- 1234,StatusPhN (get a list of stores emergency numbers)
- 1234,TLog (get the temperature log. Every hour the temperature is saved There are a log history for 35 hours)
- 1234,Out1,1 (Out1 is ON)
- 1234,Out1,0 (Out1 is OFF)
- 1234,Out2,T (Out2 will toggle with a 1.5 second delay)
- 1234,Help (get a list of SMS command)

10 Functional overview:

- Small, fits everywhere (L70 x W40 x H20).
- Built-in antenna.
- Warning at temperatures below +5°.
- Warning at temperatures above +45°.
- Warning at low self-selected temperature between 1-30°.
- Warning at high self-selected temperature between 1-45°.
- Power alarm via SMS, so you can prevent damage of the fridge, freezer etc.
- During a power failure, a status is sent for every temperature drop of 2° if the room temperature is below 10°.
- Temperature sensor with built-in calibration (-5° – +5°).
- Roaming is supported, works abroad.
- 4 alarm numbers.
- Self-selected, unique ID, for example your address (do not use æøå and special characters).
- Strong IR signal that makes it possible to place the CTSsmall far away from the heat pump.
- CTSsmall works on 4G (CAT.M) as well as 2G.
- All user setup data is stored.
- Li-Po battery with backup for approx. 3 days, in case of power failure.
- USB power supply with EU plug.

11 Specification for the two relay contacts:

- Maximum 30 VDC or VAC/3A.
- The contact is of type NO.