

## COOLSENSE-Bluetooth(BLE 4.0) Temperature Logger

This document provides few commands which application(client) should sent to peripheral to perform various tasks from peripheral like changing time and date, retrieving time and date, changing time interval to get information after certain time, retrieving time interval ,turning Bluetooth off, reset the memory so that it store information from starting address and retrieving time,date,temperature,humidity and battery information.

### Commands

1. **CD,<MM-DD-YYYY>**:-This command is used to change date of controller  
Eg:-CD,01-06-2019:-6<sup>th</sup> February 2019.  
MM:-month:-value should be between 0 to 11  
DD:-month date:- value should be between 1 to 31  
YYYY:-year:- value since 1900  
**Note**:-MM,DD,YYYY should all be given in numeric form.MM value should be given from **0 to 11** e.g if you want month to be **February** then the value of **MM** should be **01 instead of 02**.
2. **CT,<SS-MM-HH>**:-This command is used to change time of controller. This command takes time in 24 hr format.  
**Eg**:-CT,00-42-15:-3 PM  
SS:-seconds:- value should be between 0 to 59  
MM:-minute:- value should be between 0 to 59  
HH:-hour:- value should be between 0 to 23
3. **TI,<value>**:-This command is used to get data after certain time interval  
Eg:TI,5:-After sending this command peripheral will send information after 5 seconds.  
<value>:-this parameter is in seconds.  
**Note**:-Maximum value of time interval i.e **value** should be less than 6 digit non floating type number otherwise invalid time duration would be displayed.
4. **radio off**:-This command is used to turn off Bluetooth.
5. **SCTD**:-This command is used to retrieve current date and time.
6. **SCTI**:-This command is used to retrieve current time interval after which device is sending data.
7. **DR**:-This command is use to retrieve information like current time and date,temperature and humidity sensor values from the memory.  
The information retrieved from the memory is sent to the mobile application which is connected to device through BLE technology.  
**Expected output**:-  
First Line will show:<time::date>  
**Eg**:15:28:15::31/01/019  
Second line will show:<Tem,Hum::temperature,humidity>  
**Eg**:Tem,Hum::30.61,29.68
8. **RESET**:-This command is used to clear the data stored on memory and after clearing the memory,data is stored from starting location in memory.

**Warning:** Syntax of the commands should be given in above format otherwise it will effect bluetooth communication.No extra symbols should be given before,in between and after any command.