Air Conditioning Design & Distribution

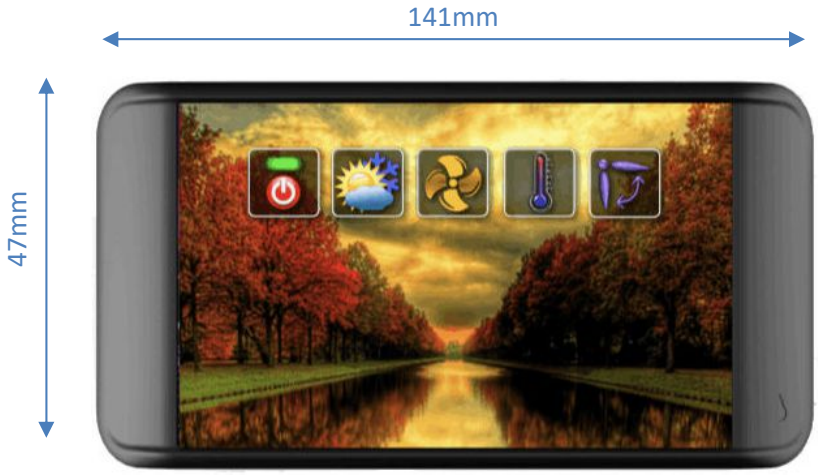
# Pocket Quick Reference Guide On the TOSHIBA

## Colour Smart Touch Remote Controller

## RBC-MTSC1

Cool Designs Ltd
Raising the Standards in Air Conditioning Distribution
www.cdlweb.info

**Toshiba air conditioning's**
**Latest addition to their wired remote controller portfolio.**



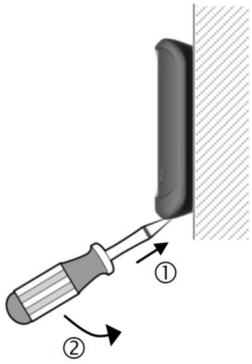

## The RBC-MTSC1.

**A small, 47 x 141 x 15mm wired colour smart touch remote controller,**
**Large capacitive touch screen.**
**Up to 30 different wallpapers.**
**Text input for instructions.**
**Fault Diagnostics.**
**DN Code access.**
**Room Temperature Sensor.**

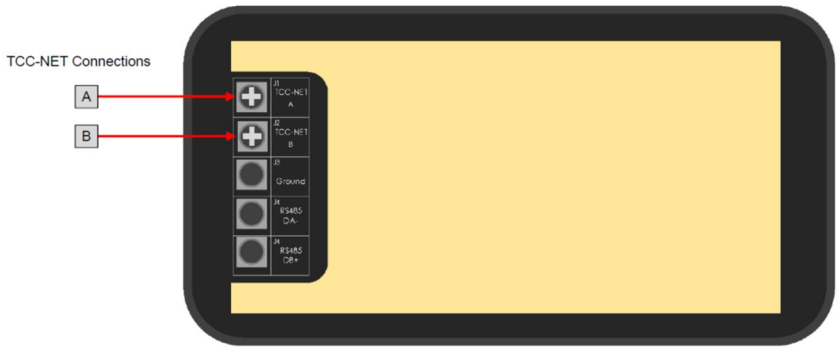
## Opening the device.

To separate the front cover from the rear, there are three small straight slots located on the bottom of the device, using a flat bladed screwdriver, insert scredriver blade into each slot and gently twist the screwdriver 30° left or right.

To replace the front cover, hook the front cover to the base cover via lugs on the top, gently push the front cover downwards and push the bottom edge to the “wall”, a gently click will be heard.




## Connections (Rear)




Power supply is 12V DC, which is obtained via the A&B connections located in the indoor unit.

## USB, Front bottom center, micro USB

The Micro USB connection is used for configuration via a PC and for firmware updates.

Configuration of wallparers, logos etc is handled by the Pyrus configuration software, which can be downloaded from: https://www.toshiba-aircon.co.uk/product/rbc-mtsc1/

## Start-Up Display.


Initial display screen when power is applied.

Automatic addressing can take up to 5 minutes

Display after initialisation, system OFF.


Pressing the power button instigates the default display.


| | | | | | |
|---|---|---|---|---|---|
| | Low fan speed | | Cooling mode | | Auto mode |
| | Medium fan speed | | Heating mode | 21°C | Temperature setting |
| | High fan speed | | Fan only mode | | Louvre operation |
| | Auto fan speed | | Dry mode | | On/Off |
| 17°C 22°C | | Minimum and maximum temperature setting | | | Disable activity |

**Power**

**Mode**

**Set Point**

**Fan Power**

**Louver**

## Configuration.

The RBC-MTSC1 controller allows access to the configuration menu, where additional functions can be activated or restricted.

To access the configuration menu.

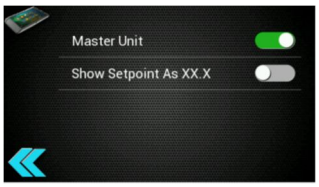
Press and hold the bottom right corner of the screen, (do not remove your finger) then with a second finger, press and hold the bottom left hand corner of the screen.

Keep pressing the bottom left corner of the screen, release your right hand finger from the bottom right of the screen, keeping the bottom left of the screen pressed.

Then tap the bottom right hand corner of the screen four times.

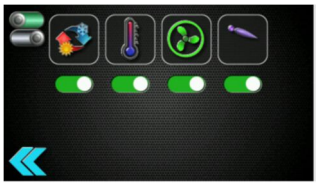

If carried out correctly the display screen will change and the following will be displayed.

# Configuration menu Icons.

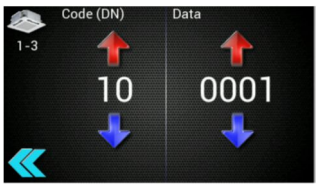



**1. General Remote Controller setup.**
Enable or disable Header Unit (Master, Slave remote)
Show setpoint 0 or 1 decimal place

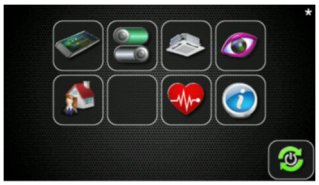
| | | | |
|---|---|---|---|
| 1. General R/C setup |  | 2. User interface setup |  |
| 3. DN code editing |  | 4. Appearance |  |
| 5. Occupancy strategy |  | 6. Not assigned or used | |
| 7. Diagnostics |  | 8. Model information |  |
| 9. Reboot button |  | 10. Back button |  |



**2. User interface setup.**
Enable or disable functions.
Operating mode, temperature change, fan speed, louvre.

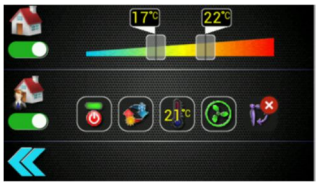



**3. DN Code Setting.**
To change DN code or Data, use the respective UP/DOWN buttons.
To enable changes, press the "GREEN" button (9), to EXIT press the "Back Button (10)



**9. Reboot Button.**
Is displayed when configuration settings have been changed.

Display will clear and the "Pyrus" screen will be displayed, this will clear, and the display will revert to normal.


**5. Occupancy Strategy.**
Setting options available to end user.
Enable / Disable – Power ON/OFF
Set Min. / Max. temperatures user can select.
Enable / Disable temperature adjustment, fan speed & louvre.

**Disable function / activity**


Power


Fan Speed


Temperature Set Point


Fan Speed

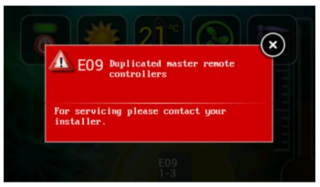

Louvre

## Error / Diagnostics.


If a system error is detected this will be displayed on the bottom section of the display screen, further details can be obtained by entering “Configuration Menu – Diagnostics”

## Diagnostics.


**7. Diagnostics.**
Displays error message, tap the picture of the air conditioner, for more information.




**7. Diagnostics.**
The display automatically changes to display more details of the error.

For details of error codes, please refer to the Toshiba fault code “app”.

Available for android or IOS via the relevant “Store”, or via Cool Designs Technical Handbook’s or our web site, https://www.cdlweb.info/resources/toshiba-fault-codes/

Alternatively call Cool Designs technical support on;

**0750 775510 / 07706 293028**,

available Monday to Friday 0730 to 1930.

# Some useful DN codes.

**For a full list of "DN Codes" please refer to the service manual for the installed equipment or to one of the" CDL Pocket Handbooks" R32 or R410A.**

| ITEM | DESCRIPTION | | VALUE | DEFAULT |
|---|---|---|---|---|
| 03 | Network address | When under network control. | 0099: Unset<br>0001 to 0064 available | 0099 |
| 06 | Stratification control | Increases effective return air temperature setting in heating mode (0 to 10K) | 0000 to 0010 | 0002; +2°C<br>Floor type<br>0000; 0°C |
| 0d | Auto mode | Enable or disable Auto mode | 0000 = available 0001 = unavailable | 0000 except SMMSe |
| 0E | SHRMi only | Used when multiple indoor units are served via a single FS box | 0000 = normal 0001= multiple units | 0000 |
| 0F | Heat Mode | Enable or disable Heat Mode | 0000 = available \| 0001 = unavailable | 0000 |
| 10 | Indoor unit model | Must be set when replacing indoor printed circuit board | 0000: 1-way cassette (s models)<br>0001: 4-way cassette<br>0002: 2-way cassette<br>0003: 1-way cassette (y models)<br>0004: duct (standard)<br>0005: slim duct<br>0006: duct (high static)<br>0007: ceiling<br>0008: hi wall<br>0010: console<br>0011: concealed floor<br>0014: 4-way compact cassette (600 x 600)<br>0013: tall cabinet<br>0016: fresh air intake<br>0050: air to air heat exchanger | |
| 11 | Indoor unit capacity | 0000 will generate a (L09) fault | MM / RAV<br>0004 =005* - 0012 =027* 80*<br>0001 =007* - 0013 =030* -<br>0003 =009* 30* 0015 =036* 110*<br>0005 =012* - 0017 =048* 140*<br>0006 - 40* 0018 =056* 160*<br>0007 =015* - 0021 =072* 224*<br>0009 =018* 56* 0023 =096* 280*<br>0011 =024* - - - -<br>Air to air heat exchanger Type<br>0001 = 150m$^3$/h<br>0002 = 250m$^3$/h<br>0003 = 350m$^3$/h<br>0004 = 500m$^3$/h<br>0005 = 650m$^3$/h<br>0006 = 800m$^3$/h<br>0007 = 1000m$^3$/h | |
| 12 | System number | DI/SDI indoor and outdoor units are automatically addressed, this value may be set manually but it must be done via the wired controller – on an individual basis. Settings are 0001 to 0030 | 0001: outdoor unit 1<br>0002: outdoor unit 2 | 0099 |
| 13 | Indoor unit number | Indoor units connected to a common outdoor unit (e.g. twinned indoor units) will have the same system number - settings are 0001 to 0064. Automatically allocated – but may be manually overridden. | 0001: indoor unit 1<br>0002: indoor unit 2 | 0099 |
| 14 | Group master/slave | Allows selection of master indoor unit within group. Automatically allocated but may be manually overridden. | 0000: single indoor unit 0001: group master 0002: group slave | 0099 |
| 16 | Indoor Fan | Indoor fan speed selection. Binary addition. | 0015 = all speeds available<br>1 = auto; 2 = low; 4 = medium; 8 = high | 0015<br>except high static<br>0008 |
| 1E | Dead band - auto | Changeover sensitivity in automatic mode. (1 to 10 k adjustable) | 0000: 0 K 0010: 10 K | 0003 |
| 1F | Max. Setting | Cooling mode maximum temperature setting (18 – 29°C) | 0018 = 18°C 0020 = 20°C 0029 = 29°C | 29 ° C |
| 20 | Min. Setting | Cooling mode minimum temperature setting (18 – 29°C) | 0018 = 18°C 0020 = 20°C 0029 = 29°C | 18 ° C |
| 21 | Max. Setting | Heating mode maximum temperature setting (18 – 29°C) | 0018 = 18°C 0020 = 20°C 0029 = 29°C | 29 ° C |
| 22 | Min. Setting | Heating mode minimum temperature setting (18 – 29°C) | 0018 = 18°C 0020 = 20°C 0029 = 29°C | 18 ° C |
| 23 | Max. Setting | Dry mode maximum temperature setting (18 – 29°C) | 0018 = 18°C 0020 = 20°C 0029 = 29°C | 29 ° C |
| 24 | Min. Setting | Dry mode minimum temperature setting (18 – 29°C) | 0018 = 18°C 0020 = 20°C 0029 = 29°C | 18 ° C |
| 25 | Max. Setting | Auto mode maximum temperature setting (18 – 29°C) | 0018 = 18°C 0020 = 20°C 0029 = 29°C | 29 ° C |
| 26 | Min. Setting | Auto mode minimum temperature setting (18 – 29°C) | 0018 = 18°C 0020 = 20°C 0029 = 29°C | 18 ° C |
| 28 | Auto restart | Enable or disable | 0000: disabled 0001: enabled | 0000 |
| 2d | Modes available | Binary addition of modes available. | 0015= all modes<br>1 = fan; 2 = cool; 4 = dry 8 = heat | 0015 |

# NOTES

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## Contact details:

# Cool Designs Ltd Technical Support

## 07590 775510 / 07706 293028

**Monday – Friday 07.30 to 19.30**

**Email: support@cooldesignsltd.co.uk**

**Web site: www.cdlweb.info**

## Toshiba Air Conditioning

## 24/7 technical support

## 0870 843 0333 (Option 7)

## Text back service

## 07624 803 017

**(Type fault code in lower case no spaces)**

**Try our on-line training videos on YouTube.**



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