

## SALES BULLETIN UPDATE

### New TCC-NET BMS Interface

- **RBC-TS11**

\*\*\* AHU Compatible \*\*\*

**TOSHIBA** are pleased to announce the New TCC NET BMS interface RBC-TS11 to join the Toshiba controls line up.

#### 1. Unit Line-Up

- RBC-TS11

#### 2. Applicable Systems

- a. VRF
- b. Light Commercial
- c. VN Ventilation units



Height = 107mm (with terminal blocks) - Width = 107mm - Depth = 33mm

#### 3. Availability

Ex-stock subject to normal despatch method.

#### 4. Features

- **AHU compatibility as standard**
- Direct connection to TCC-NET 2-wire A/B network
- Six analogue inputs selectable as voltage or resistance
- Run/error indication
- RS-485 connection
- Monitoring & control via serial Modbus
- Modbus address range 1 to 254
- Up to 16 units may be operated in a Master/Follower configuration
- Several modes of operation including special modes for energy saving and hotel applications
- Up to 8 units on a single link providing detailed information from each unit.

## 5. Analogue Input Settings

Setpoint, Lo-Setpoint, Hi-Setpoint, [Un]Occ SP, Occ SP Min, Occ SP Max

| Resistance KΩ | <=0.4 | 1.1 | 1.8 | 2.5 | 3.2 | 3.9 | 4.6 | 5.4 | 6.1 | 6.8 | 7.5 | 8.2 | 8.9 | 9.6 | >200 |
|---------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| Voltage V     | 1.3   | 2.0 | 2.6 | 3.3 | 3.9 | 4.5 | 5.2 | 5.8 | 6.5 | 7.1 | 7.8 | 8.4 | 9.0 | 9.7 | <1.0 |
| SP (deg C)    | 18    | 19  | 20  | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31  | *21  |

Mode, Fan Speed, Air Direction, [Un]Occ MD, Occ Fan speed, VN Mode, VN Fan speed, Lock

| Resistance KΩ | <=1.1                   | 2.2             | 3.3         | 4.7         | 6.8         | 9.6         | 15          | >200        |
|---------------|-------------------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Voltage V     | 1-1.75                  | 3.25            | 4.75        | 6.25        | 7.75        | 9.26        | 10.0        | <1.0        |
| 5             | AUTO {0}                | LOW {1}         | MED {2}     | HIGH {3}    | HIGH {3}    | HIGH {3}    | HIGH {3}    | *AUTO {0}   |
| MD            | AUTO {0}                | HEAT {1}        | FAN {2}     | COOL {3}    | DRY {4}     | DRY {4}     | DRY {4}     | *AUTO {0}   |
| AD            | STOP {0}                | Swing {1}       | 0 Deg {2}   | 22 Deg {3}  | 45 Deg {4}  | 68 Deg {5}  | 90 Deg {6}  | *Swing {1}  |
| Lock          | SP, FS, MD, LV & IO {0} | SP, MD & IO {1} | MD & IO {2} | IO {3}      | Local {4}   | Unlock {5}  | Unlock {5}  | *Unlock {5} |
| VN-FS         | LOW {1}                 | LOW {1}         | HIGH {3}    | HIGH {3}    | HIGH {3}    | HIGH {3}    | HIGH {3}    | *LOW {1}    |
| VN-MD         | AUTO {0}                | Heat Exch. {5}  | By-Pass {6} | By-Pass {6} | By-Pass {6} | By-Pass {6} | By-Pass {6} | *AUTO {0}   |

On/Off, Restart, Occupied/Unoccupied

| Resistance KΩ | >5.0        | <1.0     |
|---------------|-------------|----------|
| Voltage V     | <3.5        | >6.5     |
| I/O           | *Off        | On       |
| Restart       | *Idle       | Active   |
| Occupation    | *Unoccupied | Occupied |

\*Indicates default value with open circuit input or < 1.0v

### 6. Available Modes

- a. Standard operation with the facility to interconnect up to 16 units as a Master/Follower group
- b. Pre-set mode operation
- c. Local/Restore mode
- d. Duty/Standby operation
- e. Eco-1 (Timed Fan)
- f. Eco-2 (Fan Band)
- g. Hotel Mode (occupied/un-occupied)

- Mode a. applies to fan coils and VN units
- Modes b.-g. only apply to fan coil units
- Fan coils and VN units cannot be mixed on the same A/B network or in a Master/Follower group

For further information please contact our customer support team on 0870 843 0333, your local representative, your supplier of **TOSHIBA** products or email any enquiries to: - [general.enquiries@toshiba-ac.com](mailto:general.enquiries@toshiba-ac.com)