Installation Details   Procon TCB1

Description

The TCB1 time clock interface allows City Multi and 'A' Control indoor units to be operated from a remote time clock without sacrificing the ability to control the units from the standard wall controller during the 'ON' time period.

Connection Details

To connect the TCB1 to an indoor unit the three-wire loom provided should first be connected to the TCB1 three-way terminal block marked 'B'(rown), 'R'(ed) and 'O'(range). The other end of the loom should be connected to CN32 on the indoor unit

The air conditioner is activated by applying 12v DC to the two way terminal block on the TCB1 (marked + and -) and it is stopped by removing the 12v supply from these terminals.

With no voltage supplied to the 2-way terminal block the air conditioner will be OFF, the wall controller will display 'CENTRALLY CONTROLLED' and none of the wall controller function buttons will operate.

When 12v DC is applied to the TCB1 the indoor unit will turn ON. Initially the wall controller will still display 'CENTRALLY CONTROLLED' but after about 5 seconds this display will disappear and all function buttons on the wall controller will become operative.

Wiring Considerations

Up to a maximum of 40 TCB1 units may be connected to a single DC power supply rated 12v DC 1A.

Wire size should be $1mm^2$ and pairs of wires should be taken from the PSU to the TCB1 units. Multiple TCB1 units may be driven from a single pair of wires.

The maximum length for any wiring pair is
           500mtrs / (The number of TCB1 units attached).

e.g.   For a single unit on a pair the wiring run may be 500m long
        For a pair driving 10 TCB1 units the wiring run should not exceed 50m

INDOOR BOARD
CN32

B
R
O

INDOOR BOARD
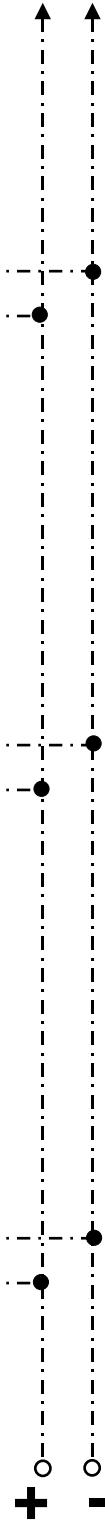CN32

B
R
O

INDOOR BOARD
CN32

B
R
O

B = Brown
R = Red
O = Orange

— — — — — — WIRES SUPPLIED WITH TCB1

— . . — . . — . . — FIELD WIRING

+ −

12v DC TIME CLOCKED
POWER SUPPLY RATED AT 1A

TCB1 Wiring