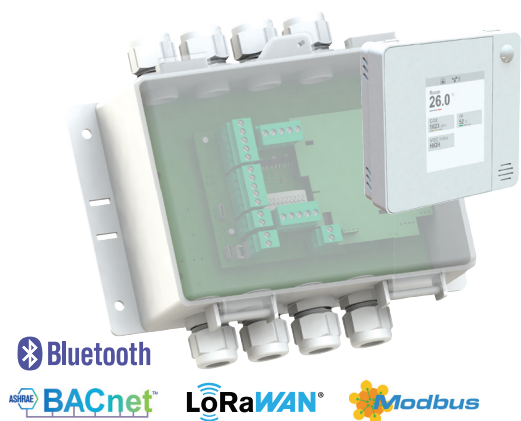


# TCR86

## ENCLOSED ROOF TOP, FAN COIL AND TERMINAL UNIT CONTROLLERS, 24V



The TCR86 Series Controllers are roof top unit, fan coil unit and terminal unit controllers. The controllers have IP65 rated enclosure with cable glands and are available with 24V or 230V power supply. The controllers can be connected a TDR20/QDR20 display panel using the USB-C cables (or via 4-wires), making installation and connection simple. The built-in universal inputs can be used with cable sensors. The room interface panels have temperature measurement, setpoint, fan speed, boost function and operating mode selection (configurable). In addition the room interface panels can have optional humidity, VOC, CO2 and occupancy measurements. The controllers have built-in Modbus RTU or BACnet MS/TP communication that allow interaction to the BMS systems, or Wireless LoraWan. The controllers can be configured using Windows Configuration Tool over the USB-SERIAL or wireless Bluetooth BLE-TOOLSET. The controllers can also be configured over the Modbus/BACnet, or using iOS Mobile Phone/iPad application.



### Technical Details Summary

Power:	24Vac/dc -10%/+15%,
Inputs:	4 x Universal Inputs - RI/AI/DI Selection RI = NTC10 Measurement RI = Resistive kOhms Measurement, 0.1..500kOhms, Accuracy: 0.1+/-2% kOhms of the reading (1..80kOhms), resolution 0.1 kOhms AI = 0..10Vdc Input, display resolution 0.1 Volts DI = Digital Volt-Free Input
Analogue Outputs:	2 x Analogue 0-10Vdc Outputs, max 2mA
Digital Outputs:	6 x 24V Rated Pilot Relays, max 0.5A load
Wired Comms:	Modbus RS485 or BACnet MS/TP, with 60V Fault Tolerance, 1/10 Unit Load
Wireless:	Bluetooth Interface to Smartphone App or BLE USB Dongle LoraWan® Wireless Interface (EU868, US915, AS923)
Sensor Bus:	2 x USB-C Connectors for the Room Interface Panels (TDR/QDR20) Each connector provides RS485, 0V and 5Vdc Option: 5V, 0V, TX, RX Spring Loaded Terminals Block
Terminals:	Spring Loaded Push Fit Terminals, 0.2 to 2.5mm2 / 26..12 AWG, 4 x M16 and 4 x M20 Cable Glands
Enclosure:	ABS Plastics - White, IP65 Rating
Dimensions:	W220 x H140 x D75mm
Origin:	United Kingdom

Part Number	SKU# Number	
<b>Product Name</b>	<b>Code</b>	<b>Product Options</b>
TCR86 RTU, FCU and Terminal Unit Controller, 4UI, 2AO, 6DO, 1 x Room Interface Unit Support	8600	
<b>Communications Options</b>		
No Wired Communication (select for LoraWan)	0	
MOD Modbus RS485, Up to 60V Protection	1	
BAC BACnet MS/TP, Up to 60V Protection	2	
<b>Wireless Communication Options</b>		
No Interface		00
BLE Bluetooth App Interface		03
LRA LoraWan Wireless Interface, EU868Mhz		06
BLE-LRA LoraWan Wirelss Interface EU868 with Touch-screen		09
<b>Zone Sensor Supply</b>		
USB-C Connector		60
5V 5V+ Zone Sensor Communications with Screw Wiring Terminals		61
<b>Power Supply Option</b>		
24 24V Power Supply		10
<b>Region Options (LoraWan)</b>		
Non Lora & EU868MHz LoraWan (Default)		0
US US915MHz LoraWan		1
AS AS923MHz LoraWan		2
<b>Colour</b>		
W White		2

Order Example: TCR81-LRA-5V-230-W, SKU# 8100 0 06 60 11 02

Accessories	SKU# Number
USB-C- 6m USB-C Male to USB-C Male for Room	8510 0 00 0005 01
CAB-6 Inrterface Units, Black	
USB-C- 5m USB-C Female to USB-C Male Extension	8520 0 00 0006 01
EXT-6 Cable, Black	

