QCR12 - TCR12

SLIMLINE CO2 AND TEMPERATURE TOUCH CONTROLLERS (rH, VOC, PIR)

Bluetooth

BACnet LoRaWAN Modbus

The TCR/QCR Series Controllers have been designed to be wall mounted universal temperature, air quality, humidity controllers in room spaces. The controllers are suitable for a wide range of applications and have pre-defined application logic that covers most room control heating and cooling systems such as fan coil units, chilled ceilings, zone heating etc.

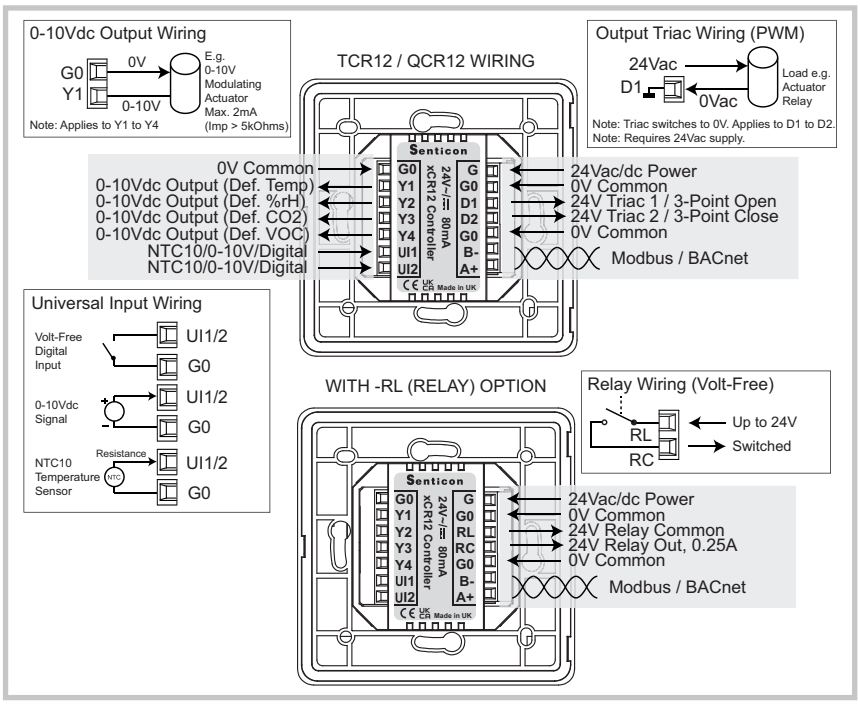
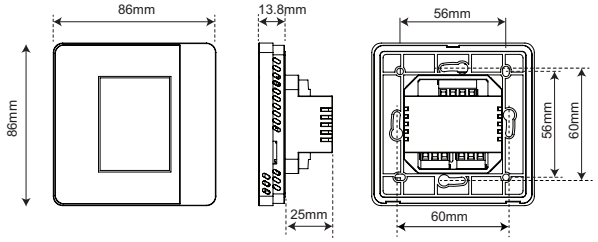
The TCR12/QCR12 controllers are Slimline flush mounted with additional IOs to standard wall mounting boxes.

The room controllers are typically supplied with a sharp colour touchscreen display with glass front that provides intuive user interface. An optional PIR sensor is available. The controllers have built-in Modbus RTU or BACnet MS/TP communication that allow interaction to the BMS systems. Optional Bluetooth wireless interface provides Smart Phone App interface (iOS). LoraWan option allows integration wirelessly to the LoraWan systems.

Technical Details Summary	
Power:	24Vac/dc, max 80mA with Touchscreen Note: Triacs require 24Vac supply.
Tempera-ture:	Range: 0..50° (32..122°F) Accuracy: ±0.5°C
CO2 (QCR Models):	Range: 0..5,000ppm Accuracy: ±30ppm ±3.0% m.v.
Humidity (Option):	Range: 0..100%rH Accuracy: ±2%rH (within 20 to 80%rH)
VOC (Option):	Volatile Organic Compound Range: Air Quality Index : 0..500 Device to Device Variation: ±10 index points
PIR (Option):	Occupancy Detection, Range: 5m
Inputs:	2 x Universal Inputs, NTC10, 0-10V, Digital
Analogue Outputs:	4 x Analogue 0-10Vdc Outputs, max 2mA
Digital Outputs:	2 x 24Vac Rated Triacs, Switching to 0V, Max 1A load, OR 1 x Optional 24V Pilot Relay, max 1.0A
Communi-cations:	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)
Display:	Full Colour 2.4" LCD, 240x320px
Touch:	Capacitive Touchscreen
Terminals:	Rising Cage Screw Terminals, 0.2 to 2.5mm2 / 26 to 12 AWG
Enclosure:	ABS ULV0 Plastics - White or Black, IP30 Hardered Glass ≥6H for Display/Touch
Dimen-sions:	W86 x H86 x D24mm W86 x H86 x D13.8mm (Surface Part) W86 x H86 x D39mm (Total)
Origin:	United Kingdom

Part Number		SKU# Number				
Product Name		Code	Product Options			
TCR12	SlimLine Room Temperature Controller, 2UI, 4AO, 2DO, 24VSupply	5400				
QCR12	SlimLine Room Temperature and CO2 Control-ler, 2UI, 4AO, 2DO, 24V Supply	5500				
Communications Options						
MOD	Modbus RS485, Up to 60V Protection		1			
BAC	BACnet MS/TP, Up to 60V Protection		2			
Interface and Wireless Options						
	No Interface (Blank Front)			00		
TS	Colour Capacitive Touchscreen			02		
BLE	Bluetooth App Interface			03		
TS-BLE	Touchscreen and Bluetooth			05		
LRA	LoraWan Wireless Interface, EU868Mhz			06		
TS-LRA	LoraWan Wireless Interface EU868 with Touchscreen			08		
Measurement Options						
	No Extra Measurements				00	
RH	Relative Humidity, 2% Acc				01	
RH-VOC	Volatile Organic Compound and Humidity				02	
OE	Passive Infrared Movement Sensor (PIR)				03	
RH-OE	Relative Humidity and Movement (PIR)				04	
RH-VOC-OE	VOC, Relative Humidity and PIR				05	
Output Options						
	No Output Options					00
RL	24V Relay Output					01
Colour Options						
B	Black					01
W	White					02

Order Example: TCR12-BAC-TS-B, SKU# 5400 2 02 00 00 01



DIMENSIONS (xCR12/xCR13/xCR14/xCR15 SERIES)