

# QDR20 - TDR20

## TOUCHSCREEN ROOM INTERFACES FOR TCR80 SERIES (CO<sub>2</sub>, Temp, rH, VOC, PIR)

STANDARD



SLIMLINE



The TDR20/QDR20 Touchscreen and Slimline Touchscreen Room Displays are used together with the TCR80 series ceiling mounted room controllers. The room interfaces have colour touchscreen and integrated temperature measurement. The colour touchscreen can be used for the setpoint adjustment, changing the controller operating mode and fan speed. Configurable boost button also available. The touchscreen room displays can also have optional CO<sub>2</sub>, VOC, humidity and occupancy monitoring.

In addition the BMS can send through the TCR80 series controllers additional information such as energy or water consumption figures, or outside air temperature readings.

The interfaces are connected using RS485 over USB-C connection making wiring easy and secure. 4-wire terminal is also provided.



### Technical Details Summary

Power:	5Vdc via USB-C Cable or Wiring Terminals
Temperature:	Range: 0..50° (32..122°F) Accuracy: ±0.5°C
CO <sub>2</sub> :	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
Wired Network:	Modbus RS485 over USB-C Connection / 4-wires
Addressing:	Via PC Device Configuration Tool, via Smartphone Tool, or via Display (Default Address 1)
Display:	Full Colour 2.4" LCD, 240x320px Cover Glass Hardened ≥6H
Touch:	Capacitive Touchscreen
Terminals:	Rising Cage Screw Terminals, 0.2 to 2.5mm <sup>2</sup> / 26 to 12 AWG
Enclosure:	ABS ULV0 Plastics - White or Black, IP30
Dimensions:	Slimline: W86 x H86 x D13.8mm (Surface Part) Slimline: W86 x H86 x D39mm (Total) Standard: W86 x H86 x D39mm (Total)
Origin:	United Kingdom

Part Number		SKU# Number	
<b>Product Name</b>	<b>Code</b>	<b>Product Options</b>	
TDR20 Touchscreen Room Interface, Temperature Measurement, USB-C & 4-Wire SensorLink	2000		
QDR20 Touchscreen Room Interface, Temperature and CO <sub>2</sub> Measurement, USB-C & 4-Wire Sensor-Link	2100		
<b>Communications</b>			
MOD Modbus RS485		1	
<b>User Interface Options</b>			
No Display (Blank)			00
TS Colour Capacitive Touchscreen			02
<b>Measurement Options</b>			
No Extra Measurements			00
RH Relative Humidity			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 Movement (PIR)			05
<b>Mounting Options</b>			
Standard Wall Surface or Junction Box			00
F Slimline Flush Mounting on Junction Box			30
<b>Colour Options</b>			
B Black			01
W White			02

Order Example: TDR20-MOD-TS-RH-OE-F-B, SKU# 2000 1 02 04 30 01

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

