

QER14/15 - MER14/15 - VER14/15 - TER14/15

SLIMLINE 230V SMART AIR QUALITY (CO2, TVOC), TEMPERATURE AND HUMIDITY SENSORS

SMART ROOM SENSORS



The xER14/15 (QER14/15, MER14/15, VER14/15, TER14/15) Series 230V Smart Multi-Sensors have been designed for monitoring and control CO2, VOC, Temperature, Humidity and Occupancy in room spaces. The xER14/15 series sensors are Slimline flush mounted to standard wall mounting boxes.

The sensors can have an optional colour display with high hardness glass front, and/or additional PIR sensor. Touchscreen option is available for network user interface functions and interactive sensor operations such as trending. Sensors have also integrated control loops, and can be used as network input/output module. Optional Bluetooth wireless interface provides Smart Phone App interface (iOS). LoraWan option allows integration wirelessly to the LoraWan systems. Programmed over serial cable or Bluetooth using PC or iOS Tools.



INTELLIGENT ROOM CONTROL SOLUTIONS

Technical Details Summary	
Power:	90-250VAC 50/60Hz, 0.15A
CO2:	Range: 0..5,000ppm Accuracy: ±30ppm ±3.0% m.v.
Temperature:	Range: 0..50° (32..122°F) Accuracy: ±0.5°C (typical accuracy +/-0.3°C, 18-24°C)
VOC/TVOC:	Volatile Organic Compound/Total Volatile Organic Compound Range: Air Quality Index : 0..500 TVOC Ethanol: 17..4491 ug/m3 // 9..2383 ppb TVOC Molhave (WELL Building Standard®): 23..6621 ug/m3 // 5..1326 ppb TVOC Isobutylene (RESET® Standard): 21..5482 ug/m3 // 9..2389 ppb Device to Device Variation: ±10 index points
Humidity:	Range: 0..100%rH Accuracy: ±2%rH (within 20 to 80%rH)
PIR:	Occupancy Detection, Range: 5m
Inputs:	xER14: 1 x Universal Inputs, NTC10, 0-10V, Digital, xER15: 2 x Universal Inputs
Outputs:	xER14 3 x Analogue 0-10Vdc Outputs, max 2mA xER14: 1 x 230Vac Relay, max 5A res. xER15: 4 x Analogue 0-10Vdc Outputs, max 2mA
Wired Network:	Modbus RS485 or BACnet MS/TP, with 60V Fault Tolerance, 1/10 Unit Load Address Setup via Bitswitch, Display or Tool
Wireless:	Bluetooth Interface to Smartphone App or BLE USB Dongle (PC Device Config Tool) LoraWan® Wireless Interface (EU868, US915, AS923)
Display:	Full Colour 2.4" LCD, 240x320px Cover Glass Hardened ≥6H
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
Dimensions:	W86 x H86 x D24mm
Origin:	United Kingdom

Part Number		SKU# Number	
Product Name	Code	Product Options	
QER14 Slimline Room CO2 and Temperature Multi-Sensor, 1UI, 3AO, 1RO, 90-250Vac Supply	1040		
MER14 Slimline Room Humidity and Temperature Multi-Sensor, 1UI, 3AO, 1RO, 90-250Vac Supply	1140		
TER14 Slimline Smart Room Temperature Sensor, 1UI, 3AO, 1RO, 90-250Vac Supply	1240		
VER14 Slimline Room VOC, Humidity and Temperature Multi-Sensor, 1UI, 3AO, 1RO, 90-250Vac Supply	1340		
QER15 Slimline Room CO2 and Temperature Multi-Sensor, 2UI, 4AO, 90-250Vac Supply	1050		
MER15 Slimline Room Humidity and Temperature Multi-Sensor, 2UI, 4AO, 90-250Vac Supply	1150		
TER15 Slimline Smart Room Temperature Sensor, 2UI, 4AO, 90-250Vac Supply	1250		
VER15 Slimline Room VOC, Humidity and Temperature Multi-Sensor, 2UI, 4AO, 90-250Vac Supply	1350		
Communications Options			
MOD Modbus RS485, Up to 60V Protection		1	
BAC BACnet MS/TP, Up to 60V Protection		2	
Interface Options			
	No Interface		00
LCD	Colour Display		01
TS	Colour Capacitive Touchscreen		02
BLE	Bluetooth App Interface		03
LCD-BLE	Colour Display and Bluetooth		04
TS-BLE	Touchscreen and Bluetooth		05
LRA	LoraWan Wireless Interface, EU868Mhz		06
LCD-LRA	Colour Display and LoraWan Interface, EU868		07
TS-LRA	LoraWan Wireless Interface EU868 with Touchscreen		08
Measurement Options			
	No Extra Measurements		00
RH	Relative Humidity (QER Only)		01
RH-VOC	Volatile Organic Compound and Humidity (QER Only)		02
OE	Passive Infrared Sensor (PIR)		03
RH-OE	Relative Humidity and PIR (QER Only)		04
RH-VOC-OE	VOC, Relative Humidity and PIR (QER Only)		05
Colour Options			
B	Black		00 01
W	White		00 02

Order Example: VER14-BAC-TS-BLE-RH-B, SKU# 1340 2 05 01 00 01

TOOLS

