



Featuring a sleek, modern and slimline design and using NDIR technology for CO2 measurement, the sensor exposes the CO2, relative humidity and temperature environmental measurements directly onto a BACnet MS/TP or Modbus RTU RS485 network.

The sensors also incorporate in-built, networkable I/O with 1 x Digital Output (DO) and 1 x Digital Input (DI) allowing flexible on/off environmental and non-environmental control loops to be set up via the BACnet communications.

Quick release button, tamperproof features and pluggable terminals aid the install process and maintenance of the sensors.

All room housings within the Gen 3 product line incorporate certified Polygiene® product protection, designed to pro-actively inhibit the growth of bacteria on the sensor surface.

Easily addressed via the on-board DIP switches, the sensors are ideal for a wide range of applications that require accurate, networkable monitoring across open systems along with control on demand in building types such as schools, universities, retail, offices and leisure centres.

SMART ROOM CO2, TEMPERATURE & HUMIDITY SENSOR

TP-RS-CO2HT-BMS FEATURES

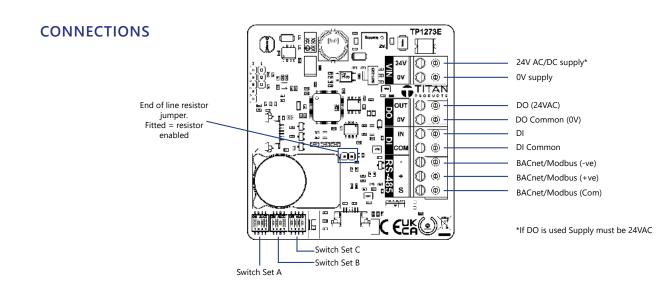
- Modern, slimline design only 19mm
 deep
- Accurate measurement of internal room CO2, temperature & humidity
- BACnet MS/TP & Modbus RTU communications
- Polygiene® anti-microbial product protection
- Quick and simple installation

SPECIFICATION

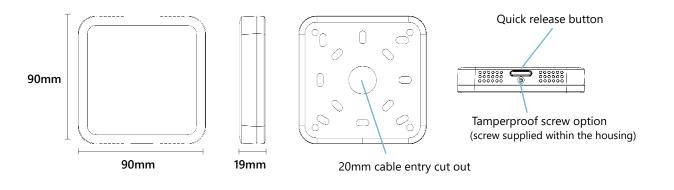
Material:	ABS (Flame retardant)
Power Supply:	24VAC/DC +/- 10%
	(AC supply required if using DO)
Power Consumption:	30mA (Does not include DO load if used)
Outputs:	BACnet MS/TP or Modbus RTU
	1 x DO rated at 80mA
Inputs:	1 x DI
Accuracy:	CO2: 50ppm +/- 2% of reading
	Humidity: +/- 2%RH
	Temperature: +/- 0.2°C
CO2 Sensing:	NDIR
IP Protection:	IP30
Mounting Location:	Wall mounted, 1.5m from floor level
Environmental Conditions:	-10 to 60°C
	0 to 95%RH Non-condensing
Connections:	Pluggable screw terminals for 0.3 to 1.5mm cable
Recommended Supply	Screened, twin twisted pair 0.75mm to 1mm.
Cable:	Screen earthed at controller end only.
Recommended	Belden 3106A or 9841 (0.2mm2) Twisted Pair with
Communication Cable:	Drain wire and foil wrap or equivalent
	Must Be suitable for RS485 Standard
BACnet Baud Rates:	9600, 19200, 38400, 76800
Modbus Baud Rates:	9600, 19200, 38400, 57600
Country of Origin:	UK
Product Code:	TP-RS-CO2RHT-BMS



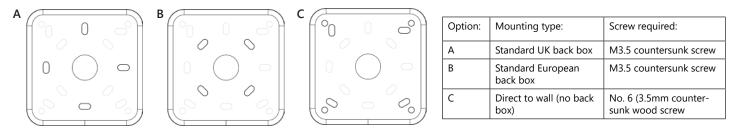
SPACE



DIMENSIONS



Mounting Options



CO2

Automatic Background Calibration (ABC):

Titan CO2 sensors are supplied pre-calibrated and will auto calibrate every 7 days thereafter using automatic background calibration. To maintain calibration and long-term accuracy stability, the sensor should be exposed to low, unoccupied CO2 levels (typically 400ppm) at least once every 7 days.

For further install and setup information please see Setup & Install Guide.

