



# RSMFMB-2R

## Multifunctional room sensor with buzzer

The RSMFMB-2R are multifunctional room sensors with integrated audible alarm which measure temperature, relative humidity,  $\mathrm{CO_2}$  concentration and ambient light level. They are Power over Modbus supplied and all parameters are accessible via Modbus RTU.

#### **Key features**

- Adjustable temperature, relative humidity and CO<sub>2</sub> ranges
- Replaceable audible alarm module, settable via Modbus register (OFF, continuous or pulsed)
- Ambient light sensor with adjustable 'active' and 'standby' level
- Replaceable CO, sensor element
- Modbus RTU (RS485) communication
- Green, yellow and red LED with adjustable light intensity for status indication
- Long-term stability and accuracy

	Technic	cal specifications
Supply voltage	24 VDC, Power over Modbus	
Typical field of use	Temperature range	-0-50 °C
	Relative humidity range	0—95 % rH (non-condensing)
	CO <sub>2</sub> range	400-2.000 ppm
Accuracy		±0,4 °C (0-50 °C)
	±3% rH (0-100% rH)	
Protection standard	IP30 (according to EN 60529)	

	Article codes		
Article code	Supply	Connection	Imax
RSMFMB-2R	24 VDC, PoM	RJ45	70 mA

### Area of use

- $\bullet$  Monitoring indoor temperature, relative humidity and  $\mathrm{CO_2}$  level in HVAC applications
- $\bullet$  Suitable for residential and commercial buildings
- For indoor use only

		Wiring and connections
		RJ45 socket (Power over Modbus)
Pin 1	24 VDC	Cumply yellogo
Pin 2		Supply voltage
Pin 3	А	Modbus RTU communication, signal A
Pin 4		Modbus RTO communication, signal A
Pin 5	/B	Modbus DTII semmunisation, signal /D
Pin 6		Modbus RTU communication, signal /B
Pin 7	CND	Cround gunnly voltage
Pin 8	GND	Ground, supply voltage
GND S mmr	8 7 6 4 3 1	PJ 45



#### **Modbus registers**

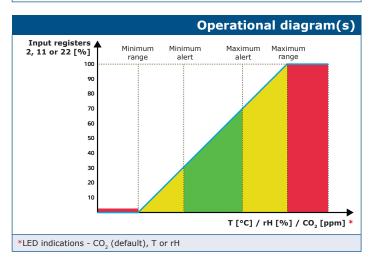


The Sensistant Modbus configurator allows you to easily monitor and/or configure Modbus parameters.

The parameters of the unit can be monitored / configured through the 3SModbus software platform. You can download it from the following link:  $\frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-$ 



For more information about the Modbus registers, please refer to the product Modbus Register Map.

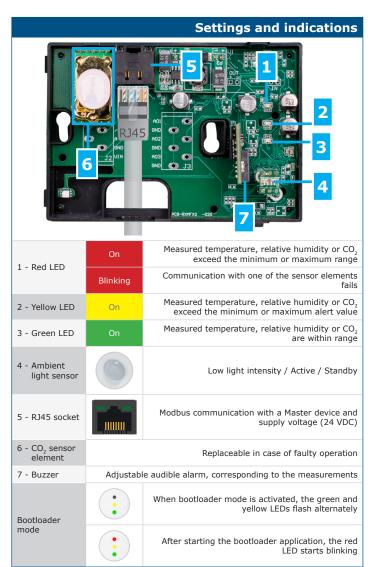


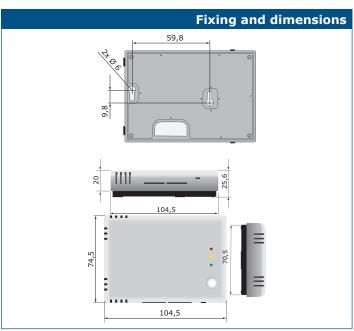


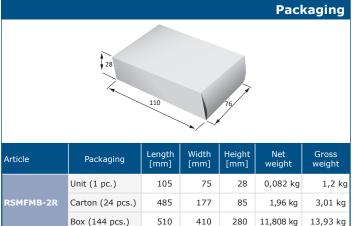
# RSMFMB-2R

Multifunctional room sensor with buzzer









	Global trade item numbers (GTIN)
Packaging	RSMFMB-2R
Unit	05401003018033
Carton	05401003302620
Вох	05401003503768

### **Standards**

• Low Voltage Directive 2014/35/EC

-EN 60529:1991 Degrees of protection provided by enclosures (IP Code) Amendment AC:1993 to EN 60529

-EN 60730-1:2011 Automatic electrical controls for household and similar use -Part 1: General requirements

• EMC Directive 2014/30/EC:

EMC Directive 2014/30/EC:
-EN 60730-1:2011 Automatic electrical controls for household and similar use Part 1: General requirements
-EN 61000-6-1:2007 Electromagnetic compatibility (EMC) - Part 6-1: Generic
standards - Immunity for residential, commercial and light industrial environments
-EN 61000-6-3:2007 Electromagnetic compatibility (EMC) - Part 6-3: Generic
standards - Emission standard for residential, commercial and light-industrial

environments Amendments A1:2011 and AC:2012 to EN 61000-6-3
-EN 61326-1:2013 Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements

-EN 61326-2-3:2013 Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-3: Particular requirements - Test configuration, operational conditions and performance criteria

• RoHs Directive 2011/65/EC

S.1.1.R.3.1B DS-RSMFMB-2R-EN-000 - 16 / 09 / 22 www.sentera.eu