



# DSCOM-R Multifunctional duct transmitter

DSCOM-R are multifunctional duct transmitters which measure temperature, relative humidity, carbon monoxide (CO) and nitrogen dioxide ( $NO_2$ ) levels in ducts. They are Power over Modbus supplied. The measured value and all parameters are accessible via Modbus communication.

### **Key features**

- Suitable for duct mounting
- $\bullet$  Selectable temperature, relative humidity, CO and  $\mathrm{NO_2}$  ranges
- Silicon based sensor elements for CO and NO<sub>3</sub> measurements
- $\bullet$  Bootloader for updating the firmware via Modbus RTU communication
- Modbus RTU communication
- Long-term stability and accuracy
- Replaceable CO / NO<sub>2</sub> sensor module

### Area of use

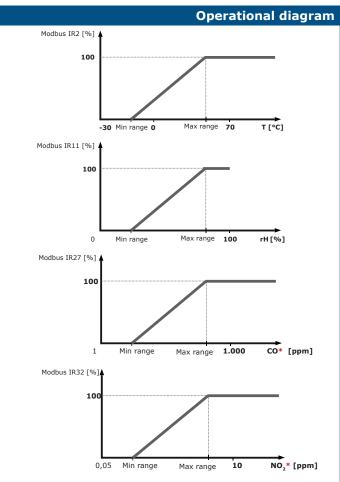
- Measurement of temperature, relative humidity and CO / NO<sub>2</sub> in ducts
- Monitoring of air quality in ducts

		Article codes
Article code	Supply voltage	Connection
DSCOM-R	24 VDC, PoM	RJ45

	Т	echnical specifications
Supply voltage	24 VDC, Power over Modbus	
Imax	113 mA	
		±0,4 °C (-30—70 °C)
Accuracy		±3 % rH (0—100 % rH)
		Trend sensor (CO and $NO_2$ )
Protection standard	Enclosure: IP54, Probe: IP20	
Ambient conditions	Temperature	-30—70 °C
Ambient conditions	Rel. humidity	0—100 % rH
Warm up time		1 hour

Wiring and connections				
RJ45 socket (Power over Modbus)				
Pin 1	24 VDC	Supply voltage		
Pin 2	24 VDC			
Pin 3	А	Modbus RTU communication, signal A		
Pin 4	A	Modbus KTO communication, Signal A		
Pin 5	/B	Modbus RTU communication, signal /		
Pin 6				
Pin 7	GND	Ground, supply voltage		
Pin 8	GND			
GND				





\*CO / NO measurement will return 0 ppb during warm-up time.





## DSCOM-R

### Multifunctional duct transmitter





1 - RJ45 Socket



To connect supply voltage and Modbus communication

2 - CO / NO<sub>2</sub> sensor element Replaceable in case of faulty operation. This CO / NO<sub>2</sub> trend sensor is intended to control ventilation systems in HVAC applications. It detects changes in concentration of carbon monoxide, Nitrogen dioxide, Ethanol, Hydrogen, Ammonia and Methane.

### **Modbus registers**



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

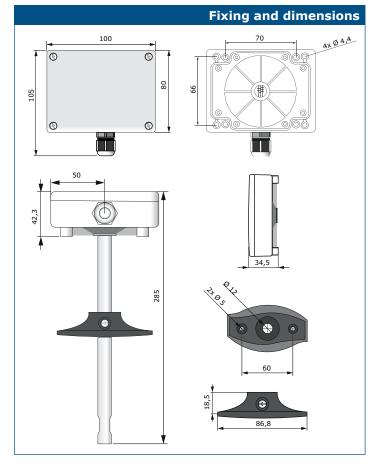
The parameters of the unit can be monitored/ configured through the 3SModbus software platform. You can download it from the following link:

### https://www.sentera.eu/en/3SMCenter

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

### Standards

- EMC Directive 2014/30/EC:
  - -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
  - LEN 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 for transducers with integrated or remote signal conditioning
- RoHs Directive 2011/65/EC



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