



# DSVCM-R

Air quality duct transmitter

DSVCM-R are multifunctional duct transmitters which measure temperature, (TOCS)

DSVCM-R are multifunctional duct transmitters which measure temperature, relative humidity and a broad range of total volatile organic compounds (TVOCs). The TVOC concentration is an accurate indicator for air quality. Based on the temperature and relative humidity measurements, the dew point is calculated. They are Power over Modbus supplied and all parameters are accessible via Modbus RTU.



- Suitable for duct mounting
- Selectable temperature, relative humidity and TVOC ranges
- Silicon based sensor elements for TVOC measurements
- Bootloader for updating the firmware via Modbus RTU communication
- Modbus RTU (RS485)
- Long-term stability and accuracy
- Replaceable TVOC sensor module

## Area of use

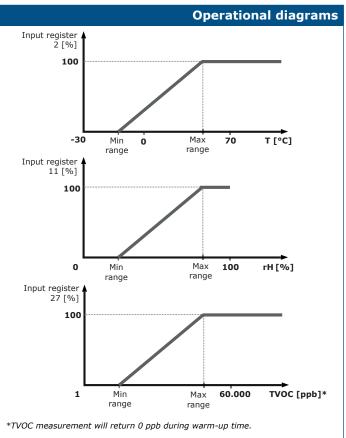
- Measurement of temperature, relative humidity and TVOC in ducts
- Monitoring of air quality in ducts

			Article codes
Article code	Supply	Imax	Connection
DSVCM-R	24 VDC, PoM	110 mA	RJ45

Technical specifications				
Supply voltage	24 VDC, Power over Modbus			
Warm-up time	15 minutes			
	Temperature range	-30—70 °C		
Typical field of use	Relative humidity range	0-100 % rH (non-condensing)		
	TVOC range	0-60.000 ppb		
A	±0,4 °C (-30-70 °C)			
Accuracy	±3 % rH (0—100 % rH)			
Protection standard	n standard Enclosure: IP54; probe: If			

		Wiring and connections	
RJ45 socket (Power over Modbus)			
Pin 1	24.VDC	Congliconaltaga	
Pin 2	24 VDC	Supply voltage	
Pin 3	А	Modbus RTU communication, signal A	
Pin 4	A	Modbus RTO communication, signal A	
Pin 5	/D	Modbus DTII sammunisation signal /D	
Pin 6	/B	Modbus RTU communication, signal /B	
Pin 7	0110		
Pin 8	GND	Ground, supply voltage	
	GND 8 mm 8 7 7 7 8 mm 6 5 8 mm 4 3 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	RJ45	









## **DSVCM-R**

Air quality duct transmitter

## Settings



1 - RJ45 Socket

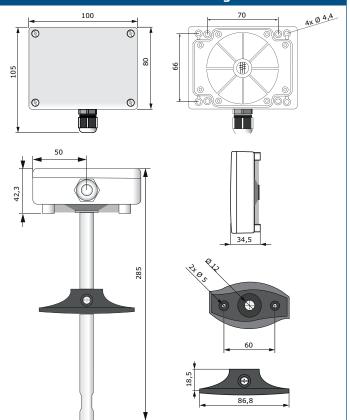


Plug the communication and power cable into the socket

2 - TVOC sensor element

Replaceable in case of faulty operation

## Fixing and dimensions



#### **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
- 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 for transducers with integrated or remote signal conditioning
- WEEE Directive 2012/19/EC
- RoHs Directive 2011/65/EC

#### **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: <a href="https://www.sentera.eu/en/3SMCenter">https://www.sentera.eu/en/3SMCenter</a>

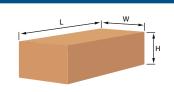


For more information about the Modbus registers, please refer to the product Modbus Register Map.

### Global trade item numbers (GTIN)

Packaging	DSVCM-R
Unit	05401003002025
Box	05401003500774

## Packaging



Article	Packaging	Length [mm]	Width [mm]	Height [mm]	Net weight	Gross weight
DSVCM-R	Unit (1 pc.)	310	115	115	0,16 kg	0,24 kg
	Box (20 pcs.)	590	380	505	3,20 kg	6,03 kg

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