



## Description

The SDCVM sensor measures air quality and the presence of carbon dioxide in air ducts in the range between 0...2000. The measurement of CO<sub>2</sub> concentration happens through a NDIR sensor that operates on an infrared basis and which compensates the presence of any impurity. The product can be provided with humidity or humidity/temperature sensor. With ModBus 485 output.

## Technical specifications

<b>Measurement range CO<sub>2</sub></b>	0...2000 ppm
<b>Accuracy CO<sub>2</sub></b>	±60 ppm (0...2000 ppm) ±2% FS
<b>Measurement range VOC</b>	450...2000 ppm
<b>Accuracy temperature °C</b>	±0,3°C (5...60°C) + 1% FS
<b>Accuracy humidity RH</b>	±2% RH (20...80%RH) + 2% FS
<b>Power supply</b>	12...34 V AC/DC
<b>Power consumption</b>	40...100 mA
<b>Working resistance at 0...10 V DC</b>	10...100 kOhm
<b>Working resistance at 4...20 mA</b>	50...500 Ohm
<b>Sensible element CO<sub>2</sub></b>	NDIR self adjusting
<b>Electrical connection</b>	Screw terminal for cables 1,5 mm <sup>2</sup>
<b>Protection type</b>	IP65
<b>Working range RH</b>	0...98% RH in contaminant-free, non-condensing air
<b>Working temperature °C</b>	0...+50°C
<b>Installation</b>	Mounting flange (included)
<b>Standards</b>	CE conformity, RoHS

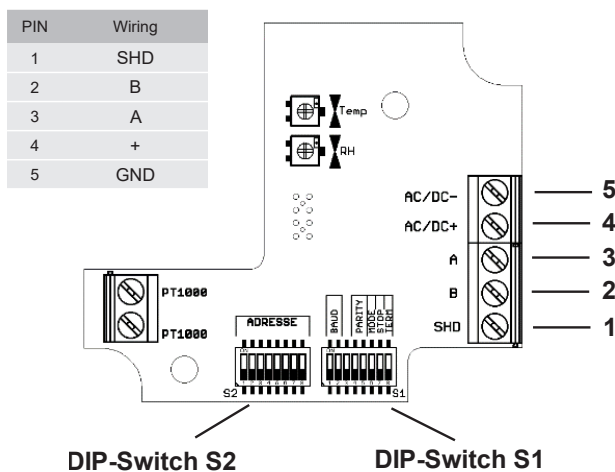


Models	Temperature	Humidity
SDCVM	-	-
SDCVTM	•	-
SDCVTHM	•	•

## Measurement source

Unit	ModBus source	Gain
ppm CO <sub>2</sub>	10	10
Temperature °C	20	10
Relative humidity %u.r.	21	10
Absolute humidity g/m <sup>3</sup>	22	10
Dewpoint °C	23	10
Enthalpy J	24	10
ppm VOC	30	10

## Electrical wirings



DIP Switch 1	Setting	1	2	3	4	5	6	7	8
	<b>Baudrate</b>								
	9600	OFF	OFF						
	19200	OFF	ON						
	38400	ON	OFF						
	57600	ON	ON						
<b>Termination</b>									
	nessuna								OFF
	120 Ω								ON
<b>Parity</b>									
	Even				OFF	OFF			
	Odd				OFF	ON			
	No parità				ON	OFF			
	No parità				ON	ON			
<b>Modality</b>									
	RTU							OFF	
	ASCII							ON	
<b>Bit stop</b>									
	1								OFF
	2								ON

