

## AIR QUALITY TRANSMITTER/CONTROLLER ILH-M

ILH-M transmitters are designed for detecting and controlling VOC (Volatile Organic Compound) level, temperature and humidity in dry room spaces. MEMS sensing technology ensures accurate and durable VOC measurement that is directly related to the CO<sub>2</sub> level. With the VOC level information the demand based ventilation can be controlled effectively.

The VOC sensor detects wide variety of hydrocarbons such as cigarette smoke, exhaled breathing air, solvent vapours, building material emissions and cleaning agent vapours.

The transmitter can be connected to any system that supports Modbus RTU protocol by using the RS-485 connection. ML-SER tool is needed in commissioning for making the Modbus settings.

The measurement values scroll on the N model display. The wanted value can be locked to view continuously.

The control output can be controlled either according to a one measurement value or according to the maximum selection of all values. The controller settings can be changed by using the ML-SER tool.

The transmitter can be equipped with following options:

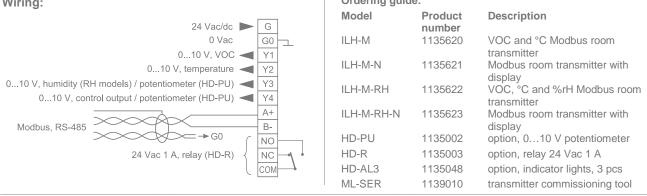
- HD-AL3 (not available for N models): VOC level indicator lights (3 pcs). As a factory setting, the lights are illuminated as follows:
  - 0 Green: 450...750 ppm
  - Yellow: 751...1250 ppm 0
  - Red: 1251...2000 ppm 0

The indicator light limits can be changed by using the ML-SER tool.

- HD-PU: Active 0...10 V potentiometer
- HD-R: Relay (24 Vac, 1 A) that switches according to the one measurement value or according to the all values. The relay switching point can be adjusted by using ML-SER tool.

See more information about options from the ILH order form.

## Wiring:



Products fulfil the requirements of directive 2004/108/EC and are in accordance with the standards EN61000-6-3: 2001 (Emission) and EN61000-6-2: 2001 (Immunity).



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pd **Technical data** 

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Supply	24 Vac/dc (2228 V), < 2 W
VOC measurement	
range	4502000 ppm (CO <sub>2</sub> equivalent)
warm up time	15 min
output	010 V < 2 mA = 02000 ppm
Temperature measurement	
range	050 °C
accuracy (25 °C)	±0.5 °C
output	010 V < 2 mA = 050 °C
Humidity measurement (RH models)	
range	0100 %rH
accuracy (25 °C)	±2 %rH
output	010 V < 2 mA = 0100 %rH
Control output	010 V < 2 mA
Communication	Modbus RTU
Operating temperature	0+50 °C
Ambient humidity	085 % RH (non cond.)
Housing	IP20, ABS plastic
Mounting	on the wall surface or on the
	standard flush mounting box
Dimensions (w x h x d)	(60 mm hole distance) 87 x 86 x 30 mm
Ordering guide:	
9.00.003 90.000	