

## AIR QUALITY TRANSMITTER/CONTROLLER ILH

ILH 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 related to the CO2 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

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:

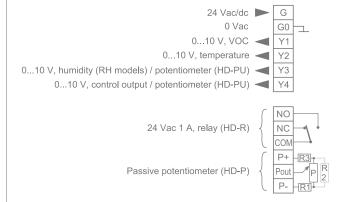
- HD-AL3: VOC level indicator lights (3 pcs). As a factory setting, the lights are illuminated as follows:
  - Green: 450...750 ppm Yellow: 751...1250 ppm  $\circ$ Red: 1251...2000 ppm

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

- . HD-P: Passive potentiometer
- 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:





## Technical data

Supply	24 Vac/dc	(2228	V), <	< 2 W

VOC measurement

450...2000 ppm (CO<sub>2</sub> equivalent) range

warm up time 15 min

output 0...10 V < 2 mA = 0...2000 ppm

Temperature measurement

0...50 °C range ±0.5 °C accuracy (25 °C)

0...10 V < 2 mA = 0...50 °C output

Humidity measurement (RH models)

0...100 %rH range +2 %rH accuracy (25 °C)

0...10 V < 2 mA = 0...100 %rH output

0...10 V < 2 mA Controller output Operating temperature 0...+50 °C

0...85 % RH (non cond.) Ambient humidity IP20, ABS plastic Housing

> on the wall surface or on the standard flush mounting box

(60 mm hole distance)

Dimensions (w x h x d) 87 x 86 x 30 mm

Mounting

Ordering guide:				
Model	Product number	Description		
ILH	1135610	VOC and °C room transmitter		
ILH-N	1135611	room transmitter with display		
ILH-RH	1135612	VOC, °C and %rH room transmitter		
ILH-RH-N	1135613	room transmitter with display		
HD-P	1135001	option, passive potentiometer		
HD-PU	1135002	option, 010 V potentiometer		
HD-R	1135003	option, relay 24 Vac 1 A		
HD-AL3	1135048	option, indicator lights, 3 pcs		
ML-SER	1139010	transmitter commissioning tool		

Products fulfil the requirements of directive 2014/30/EU and are in accordance with the standards EN61000-6-3 (Emission) and EN61000-6-2 (Immunity).

