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 vapours.

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:
  - Green: 450…750 ppm
  - Yellow: 751…1250 ppm
  - 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:

![Wiring diagram]

Technical data:
- Supply: 24 Vac/dc (22…28 V), < 2 W
- VOC measurement:
  - range: 450…2000 ppm (CO₂ equivalent)
  - warm up time: 15 min
  - output: 0…10 V < 2 mA = 0…2000 ppm
- Temperature measurement:
  - range: 0…50 °C
  - accuracy (25 °C): ±0.5 °C
  - output: 0…10 V < 2 mA = 0…50 °C
- Humidity measurement (RH models):
  - range: 0…100 %rH
  - accuracy (25 °C): ±2 %rH
  - output: 0…10 V < 2 mA = 0…100 %rH
- Controller output:
  - 0…10 V < 2 mA
- Operating temperature:
  - 0…+50 °C
- Ambient humidity:
  - 0…85 % RH (non cond.)
- Housing:
  - IP20, ABS plastic
- Mounting:
  - 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

Ordering guide:

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Products fulfill 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).