

## CARBON DIOXIDE TRANSMITTER/CONTROLLER HDH

HDH transmitters are designed for detecting and controlling carbon dioxide concentration, temperature, and humidity in room spaces. The transmitter information can be used for demand-based ventilation control, for example.

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

ABCLogic™ self-calibration method eliminates the possible long-term drift. The ABCLogic™ function can be turned off by using the ML-SER tool.

The control output (0...10 V or 2...10 V) 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:

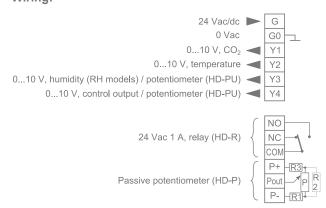
- HD-AL3: Carbon dioxide level indicator lights (3 pcs). As a factory setting, the lights are illuminated as follows:
  - Green: 0...750 ppm 0 Yellow: 751...1250 ppm Red: 1251...2000 ppm

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

- HD-P: Passive potentiometer
- HD-PU: Active 0...10 V potentiometer. The potentiometer information can be directed to output (Y3 or Y4) or used to adjust the internal controller set point.
- HD-R: Relay (24 Vac, 1 A) that switches according to the one measurement value or according to all values. The relay switching point can be adjusted by using ML-SER tool.

See more information about options from the HDH order form.

## Wiring:





## Technical data

Supply 24 Vac/dc (22...28 V), < 2 W

Carbon dioxide measurement

0...2000 ppm Range

Accuracy (25 °C) typ. ±40 ppm +3 % from reading (ABCLogic™)

< 2 % FS (ABCLogic™) Long term stability /

Time constant < 2 min

Temperature measurement

Range 0...50 °C Accuracy (25 °C) ±0.5 °C

Humidity measurement (RH models)

0...100 %rH Range ±2 %rH Accuracy (25 °C) Outputs 0...10 V, < 2 mA

Operating conditions

Temperature 0...+50 °C

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

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

(60 mm hole distance)

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

Ordering guide:		
Model	Product number	Description
HDH	1135040	CO <sub>2</sub> and °C room transmitter
HDH-N	1135041	room transmitter with display
HDH-RH	1135044	CO <sub>2</sub> , °C and %rH room transmitter
HDH-RH-N	1135045	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/FU and are in accordance with the standards EN61000-6-3 (Emission) and EN61000-6-2 (Immunity)