

CARBON DIOXIDE TRANSMITTER/CONTROLLER HDH

HDH transmitters are designed for detecting and controlling carbon dioxide concentration and temperature in room spaces. RH models have also the humidity measurement. 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 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:

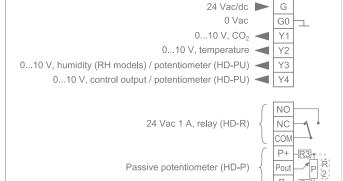
- HD-AL3 (not available for N models): Carbon dioxide level indicator lights (3 pcs). As a factory setting, the lights are illuminated as follows:
 - Green: 0...750 ppm Yellow: 751...1250 ppm Red: 1251...2000 ppm

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 that switches according to the carbon dioxide level (24 Vac, 1 A). 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)

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

Operating temperature 0...+50 °C

0...85 % RH (non cond.) Ambient humidity 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:

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Model	Product number	Description
HDH	1135040	CO ₂ and °C room transmitter
HDH-N	1135041	room transmitter with display
HDH-RH	1135044	CO ₂ , °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 2004/108/EC and are in accordance with the standards EN61000-6-3: 2001 (Emission) and EN61000-6-2: 2001 (Immunity).