

HDK 10K - DUCT CARBON DIOXIDE TRANSMITTER/CONTROLLER

HDK 10K transmitters are designed for detecting and controlling carbon dioxide concentration, temperature and humidity inside ventilation ducts. The transmitter information can be used for demand based ventilation control, for example.

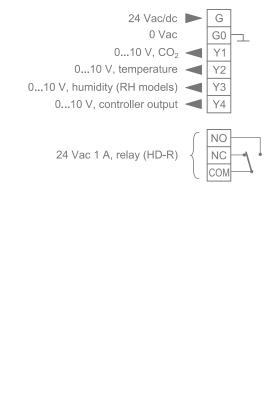
The measurement values scroll on the N model display. The wanted value can be locked to view continuously.

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 a HD-R relay (24 Vac, 1 A). The relay output can be controlled either according to a one measurement value or according to the all measured values. The relay switching point can be adjusted by using ML-SER tool.

Wiring:





Technical data

roomnour data		
Supply	24 Vac/dc (2228 V) < 2 W	
Carbon dioxide measurement		
range	010000 ppm	
accuracy (25 °C)	typ. ±200 ppm +3 % from reading (ABCLogic™)	
long term stability/year	< 2 % FS (ABCLogic™)	
time constant	< 2 min	
Temperature measurement		
range	050 °C	
accuracy (25 °C)	±0.5 °C	
Humidity measurement (RH models)		
range	0100 %rH	
accuracy (25 °C)	±2 %rH	
Measuring probe	Ø 10 mm x 110 mm; duct insulation < 75 mm	
Outputs	010 V < 2 mA	
Operating temperature	0+50 °C	
Ambient humidity	085 % RH (non cond.)	
Housing	IP54	
Dimensions (w x h x d)	105 x 104 x 155 mm	

Ordering guide:		
Model	Product number	Description
HDK 10K	1135130	CO ₂ and °C duct transmitter, range 010000 ppm
HDK 10K-N	1135131	duct transmitter with display, range 010000 ppm
HDK 10K-RH	1135132	CO ₂ , °C and %rH duct transmitter, range 010000 ppm
HDK 10K-RH-N	1135133	duct transmitter with display, range 010000 ppm
HD-R	1135003	option, relay 24 Vac 1 A
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).

Keltakalliontie 18, 48770 Kotka FINLAND Tel: +358 10 219 9100 / Fax: +358 5 230 9210 Information is subject to change without prior notice.