

## CARBON MONOXIDE (CO) TRANSMITTER HML

HML and HML-N carbon monoxide transmitters are designed for detecting carbon monoxide in underground parking garages and parking halls. The measuring cell is an environmentally friendly electro-chemical cell with a long life, good long term stability and high accuracy. As the sensor is heated the transmitter is working also in temperatures down to - 30°C.

The output of 0...10 V or 4...20 mA is available on the ranges of 0...100 or 0...300 ppm CO concentration for controlling ventilation.

Please note the warm-up time at the commissioning; output is 0V or 4mA and the display of HML-N is blinking.

The function of the transmitter must be checked regularly e.g. once a year. Checking can be made by using a reference gas of 150 ppm CO. Note! The reference gas must contain also oxygen O<sub>2</sub>, because of the measuring principal of the sensor cell. If necessary the transmitter can be calibrated by using HML-C tool.

We recommend using of HMV exchange kit to ensure the function of the transmitter. By changing the sensor module, values corresponding values of the new transmitter, can be guaranteed. Plug-in connection makes changing very easy.

**Note!** We expect returning of the replaced kits for further use. This results from the pricing of the HMV exchange kit.

Each transmitter and HMV has its own identified calibration certificate.

Factory settings:

S1 = on; measuring range 0-300 ppm CO  
S2 = on; output 0-10V selected for using



### Technical data:

Supply	24 Vac/dc 2W (22 Vac/dc... 28 Vac/dc)
Range, CO	0...100 ppm or 0...300 ppm*
Accuracy	± 10 ppm for < 70 ppm values, ± 15 % of value for > 70 ppm values
Output	0...10Vdc < 1mA* or 4...20mA < 500ohm
Time constant (t63%)	1,5 min
Warm up time	6 min
Operating temp.	-30...40 °C
Housing	IP 54, cable gland downwards
Mounting	by screws
Dim. w x h x d	100 x 113 x 46 mm
Sensor life time	< 7 years, 40% rH 20°C * factory settings

### Wiring:

1	24 Vac/dc
2	0 V
3	CO output 0...10 V
4	CO output 4...20 mA

### Ordering guide:

Model	Product number	Description
HML	1135520	CO-transmitter
HML-N	1135521	CO-transmitter with display
HMV	1135510	exchange kit
HML-C	1135522	calibration tool for HML
HM-KK	1135524	reference gas
HM-VS	1135523	flow controller