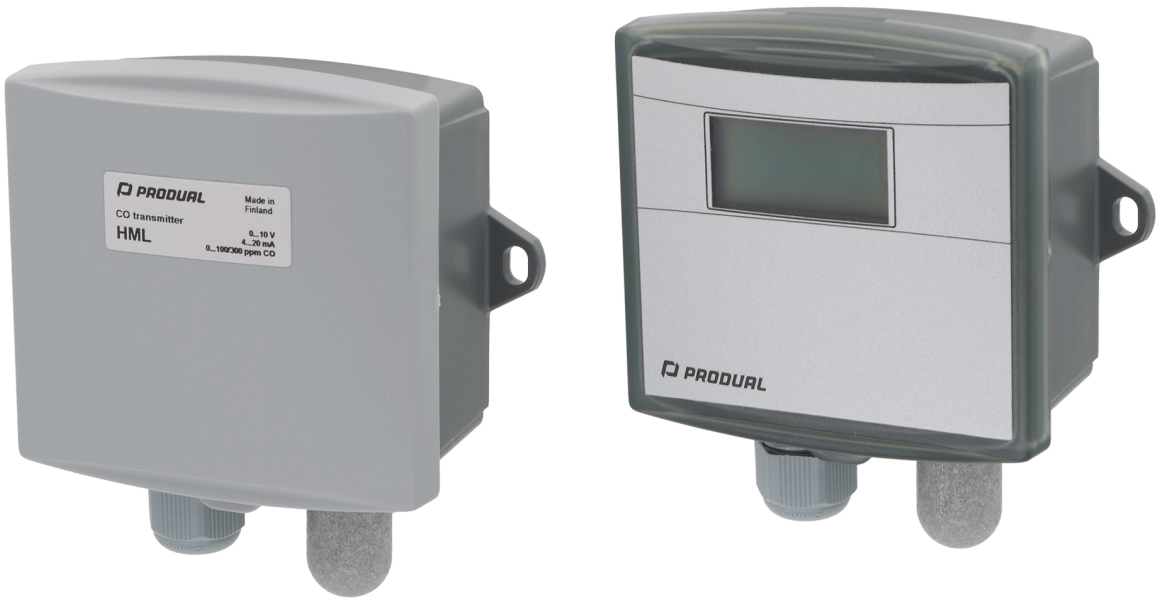
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DATA SHEET

HML

Produal

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HML CO Transmitter

HML



24 V | IP54 | CO

CE UK CA

Product page

HML carbon monoxide transmitters are designed for detecting carbon monoxide in underground parking garages and parking halls. The CO sensor detects carbon monoxide with an electrochemical cell. The electrochemical cell has good long-term stability and high accuracy. A calibration report is delivered with the transmitter.

The transmitter operates correctly also in subzero temperatures down to -30 °C because the sensor is heated.

The transmitter has one output for CO concentration. You can select the output mode (voltage / current) during commissioning.

The transmitter options include:

- Display (-N model)
- HMV calibration kit

You can commission the transmitter by selecting the measurement range and output signal mode with jumpers. There is a 6–minute warm-up period after you start the transmitter. During the warm-up period, the output signal is at 0 V or 4 mA and the display blinks in the -N model.

The recommended transmitter calibration interval is one year. You can calibrate the transmitter using the HMV calibration kit. A calibration report is delivered with the calibration kit. We expect that you return the replaced parts to the factory for refurbishing and reuse to keep the calibration kit price reasonable.

Technical specifications – Power supply

Power supply
24 Vac/dc (22...28 V)

Power consumption
< 2 VA

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Technical specifications – Measurements

CO measurement range
0...100 ppm / 0...300 ppm

CO measurement accuracy
± 10 ppm for < 70 ppm value; ± 15 % of value for > 70 ppm value

CO measurement response time (T63)
1.5 minutes

Sensor lifetime
< 7 years (40 %rH, 20 °C)

Technical specifications – Product properties

Appliance class
III

Materials
PC plastic

Warranty
5 years

Technical specifications – Outputs

Output connectors
This device has one voltage output connector and one current output connector.

Voltage output
0...10 Vdc, < 1 mA

Current output
4...20 mA, < 500 Ω

Technical specifications – Installation

Mounting
with screws, external lugs

Warm-up period
6 minutes

Technical specifications – Wiring

Wiring terminals
screw terminals

Wire
0.2...1.5 mm² (24...16 AWG)

Wiring terminal tightening torque
0.4 Nm

Cable gland
M16

Technical specifications – Operating and storage conditions

IP protection class
IP54
Note: cable downwards

Ambient temperature
-30...40 °C

Ambient humidity
5...95 %rH
Note: This device is intended for non-condensing environments.

Storage temperature
-5...55 °C

Storage humidity
5...95 %rH (non-condensing)

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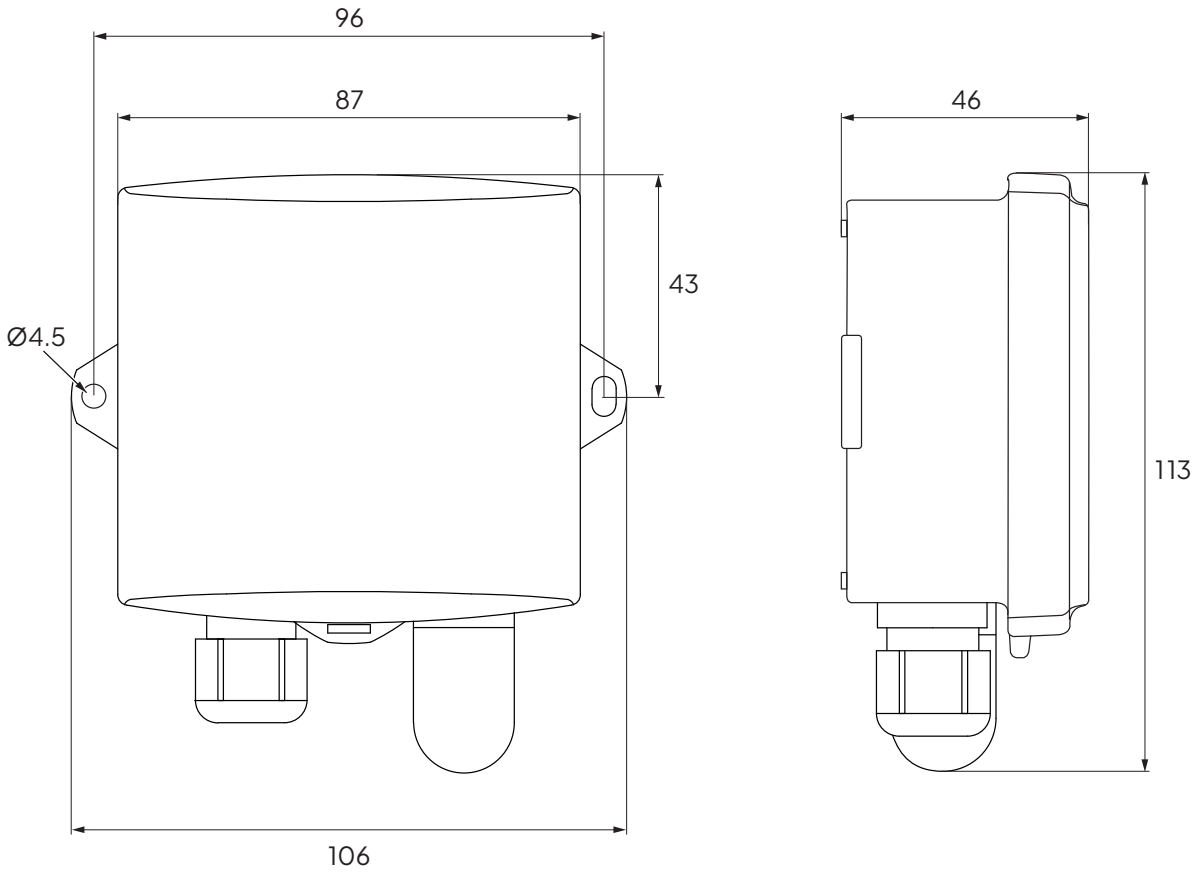
Technical specifications – Dimensions

Product dimensions (w x h x d)
106 x 113 x 46 mm

Weight
160 g

Dimensions

All dimensions are in millimetres (mm).



Factory settings

About factory settings
Factory settings are configured using jumpers.

CO measurement range
0...300 ppm

Output signal mode
0...10 Vdc

Wiring

Warning: Only connect wires and commission the device if you are qualified for electrical work and familiar with building automation products. Risk of electric shock and damage to the device.

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Warning: Connect this device to SELV (separated extra low voltage) electricity network only. This device is appliance class III product according to IEC 60664–1.

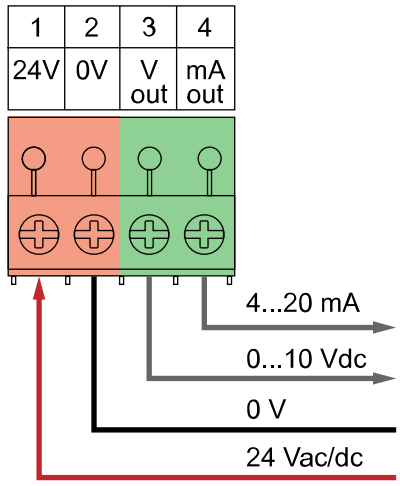
Warning: Always commission the device in a de-energised electricity network. Risk of electric shock.

Caution: Use single-stranded wires if possible. If you use multi-stranded wires, always install wire end sleeves to the wires to prevent short circuits and ensure secure attachment.

Important: For CE and UKCA compliance, use correctly grounded, shielded cable.

Important: Do not use excessive force when you tighten the wiring terminal screws.

1. Open the cover.
2. Unscrew the strain relief on the cable gland.
3. Route the cable through the strain relief and the cable gland.
4. Connect the wires to the terminal block according to the wiring diagram below.
5. Connect the signal wire to the voltage output or the current output according to jumper settings.
6. Tighten the strain relief.



24 V	Power supply, 24 Vac/dc
0 V	Power supply, 0 V
V out	Carbon monoxide output, 0...10 Vdc <500 Ω
mA out	Carbon monoxide output, 4...20 mA,

Ordering information

	Product name	Product number	
	HML	1135520	CO transmitter

In addition to the product model introduced in this data sheet, following product model is also available.

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	Product name	Product number	
	HML-N	1135521	CO transmitter with display

Optional products

	Product name	Product number	
	HMV	1135510	exchange kit for HML

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