

GENERAL:

The combination of Avaco Systems & Safe Solutions is a service package that includes skilled expert services, design assistance, high-quality equipment deliveries and after-sales marketing consultations.

The **DGT-m3** digital gas transmitter is a new and innovative device for carbon monoxide (CO) controls.

The DGT-m3 detector is designed for continuous CO monitoring in garages or in industrial use (e.g. in peat power plants, power plants, boiler rooms, foundries etc.).

The specific CO sensor module is a long-life type (5 years) and the measuring range is freely chosen between 0 - 5000 ppm. Typical measuring range in e.g. garages is 0 - 300 ppm.

THE RISKS MUST BE RECOGNISED:

Carbon monoxide is odourless, invisible and very dangerous gas and it is impossible to recognise the high CO concentrations by human senses.

Carbon monoxide prevents oxygen to attach to the blood haemoglobin and prevents the brains get enough oxygen. Small CO concentrations can cause headaches, dizziness and leg paralysis and in higher concentrations carbon monoxide is deadly gas.

USAGE:

Together with Scan-serial controllers or other existing control systems the DGT-m3 detectors form a reliable and efficient system for gas detection with comprehensive alarm and control functions.

CALIBRATION:

The detectors are delivered factory calibrated according to the measuring range. After installation it is recommended to calibrate the detectors at least once per year.

The calibration and maintenance services shall be carried out by authorized maintenance personnel.

It is recommended to recalibrate the detectors every year and operational tests (ON / OFF-test) every 4 – 6 months.

FEATURES

- CO specific sensors (electro chemical)
- High resolution
- Industrial standard output signal
- Simple wall-, ceiling- or duct mounting
- Splash protectors for outdoor installations
dimensions 225x144x97 mm (hxbxd)

DGT-m3

digital gas transmitter

- Power plants
- Production facilities, process industries
- Micro car tracks and motocross halls
- Parking halls, traffic tunnels, etc.



Enclosure dimensions: 89 mm x 89 mm x 69 mm.
The enclosure base can be turned up side down for the wires. Installation height depending of the controlled gas.



Applications:

- Cold storages
- Refrigerating stores
- Forklift garages
- Production areas
- Ice skating rinks
- Battery recharge points
- Factory trawlers
- Painting shops etc.
- Car Parks
- Vessels, Cruisers

DGT-m3

digital gas sensor / transmitter:



Technical data:

SENSOR TYPE:	Electro chemical
TARGET GAS:	Carbon Monoxide
MEASURE RANGE:	0 – 300 ppm (typical)
RESOLUTION:	< 3 PPM
T90 RESPONSE TIME:	< 50 sec
CALIBRATION:	The detectors are delivered factory calibrated to the measuring range. After installation it is recommended to calibrate the detector at least once per year. It is also recommended to do functional tests to the detector 4-6 times a year.
ENVIRONMENTAL:	
Operating temperature:	Operating temperature -10 ...+50°C continuous -20 ...+50°C intermittent
Operating humidity:	10...95 % RH non-condensing (Momentary 0...99% RH for Oxygen)
Operating air pressure:	Normal air pressure +/- 10 %
ELECTRICAL:	
Output signal:	4 - 20 mA linear response I
Operating voltage:	16...36 VDC, regulated
Cable requirements:	2-wire connection e.g. Jamak 2 x (2+1) x 0,5 mm ² (or equal)
Power consumption:	0,9 W (max)
ENCLOSURE:	
Installation:	installation Possibilities: wall, ceiling and pipe assembly
Material:	Cast Aluminium silicate, epoxy painted beige/grey, tone RAL7032
Degree protection:	IP54 (IP66 with SS protection Enclosure)
Dimensions:	89 mm x 89 mm x 69 mm. Weight 390 g
Cable penetration:	STR16, for cables with diameters 6 – 12 mm, body polyamide, gasket CR

NOTE: DGT-m3 sensor module lifetime approx. 5 years



DGT gas detectors

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