



CE
GWT Cl2

FEATURES

- 4-20 mA output
- Wide supply voltage range (10-35 Vdc)
- Ranges from 0-5 ppm up to 0-200 ppm
- Excellent long term stability
- Accuracy unaffected by position

APPLICATION

Designed for use in swimming pools applications.

A current loop powered Chlorine detector, giving a 4-20 mA output over ranges 0-5 ppm up to 0-200 ppm Chlorine concentration.

The detector has a normal working life of 2 years, and is easily replaced at the end of it's working life.

The unit is accurate and stable.

The sensitivity is unaffected by detectors position.

TECHNICAL DATA

Output	4-20 mA
Power supply	10-35 Vdc, single ended
Output impedance	4 Mohm
Element life	2 years in air
Resolution	0,1 ppm
Temperature range	-20...+50°C
Pressure range	Atmospheric ± 10%
Pressure coefficient	No data
Response time	< 60 seconds
RH range	15-90% non-condensing
Maximum Zero Shift (+20...+40°C)	-0.2 ppm equivalent
Long term stability	< 2% signal loss/month
Repeatability	2% of signal
Output linearity	Linear
Position sensitivity	None
Storage temperature	0...+20°C
Rating	IP67
Housing dimensions	L135 (110) x W90 (77) x H65 mm
Weight	230 g
EMC	EN-50081-1 Emission EN-50082-1 Immunity

NB

All performance data is based on conditions at +20°C, 50% RH and 1013 mBar

DESIGN FEATURES

The gas detector GWT Cl2 is a pre-calibrated unit, there is no need of any tool for commissioning and there is no need of calibration by a qualified engineer.

The gas sensing unit should be replaced after 2 years and you can use the existing PCB board and IP 67 housing.

ORDER

Chlorine gas detector 4-20 mA output

GWT Cl2 005	0 - 5 ppm
GWT Cl2 010	0 - 10 ppm
GWT Cl2 020	0 - 20 ppm
GWT Cl2 030	0 - 30 ppm
GWT Cl2 050	0 - 50 ppm
GWT Cl2 100	0 - 100 ppm
GWT Cl2 200	0 - 200 ppm

The gas detectors life period is 6 months unpowered and because of that, they are manufactured after order and delivery time is normally 2-3 weeks.



CONNECTIONS

Red:	+10-35 Vdc
Black:	4-20 mA output

The green and the yellow connections are not normally used.

Remove the cover of the unit to expose the connection terminals.

Thread the cable through the gland and make the connections for the +24 Vdc and 4-20 mA signal.

The correct polarity must be observed.

Damage to the detector may result if the correct connections are not made.

There are no user adjustable components on the PCB.

The detector is factory calibrated and should not require and adjustments in the field.

INSTALLATION AND CONNECTION DETAILS

All connections to BEMS controllers, data recorders etc. should be made using screened cable.

Normally, the screen should be earthed at one end only (usually the controller end) to avoid earth hum loops which can create noise.

Low voltage signal and supply cables should be routed separately from high voltage or mains cabling.

Separate conduit or cable trays should be used.

Where possible, the controller's earth should be connected to a FUNCTIONAL EARTH, rather than the mains safety earth.

This will provide better immunity to high frequency noise. Most modern buildings have a separate earth for this purpose.

WALL MOUNTING

Avoid mounting the detector in direct sunlight.

If the detector is to be mounted in direct sunlight, it is recommended that the unit be mounted with the cable entry at the bottom.

DUCT MOUNTING

CDE duct enclosure

to built in GWT gas detector for sensing gas in duct.

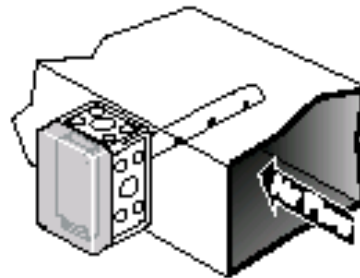
The mounting location of CDE duct enclosure should be in the return air duct.

The probe length of CDE is 230 mm and the probe diameter is 30 mm.

The probe have 3 inlet holes and 3 outlet holes Install probe with the 3 inlet holes facing the airflow

Because the limit of space inside the housing of CDE, the GWT unit will have a smaller size of housing. The GWT housing will be built-in to the CDE housing before delivery.

CDE enclosure is made of ABS plastic and have dimensions L180 x H110 x W90 mm with knockouts for glands.



CDE

ORDERING

CDE

Duct enclosure

We reserve the right to make changes and improvements in our products which may effect the accuracy of the information contained in this leaflet.