GASTOR

GD

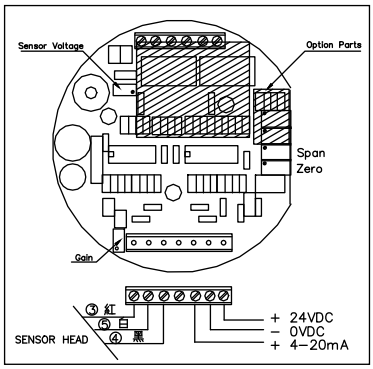
GD series GAS DETECTOR

Sensor Transmitter Robust Design

- Detection range from PPM up to %LEL
- Robust Solid state of sensor
- Sensors life more than 5 years
- Sensor and housing Explosion proof design
- One man calibration
- Easy maintenance

SENSOR TO SUIT THE NEED

The GD series Gases detectors operate on the Catalytic method or semi-conductor detection principle.
These method has proven superior for quick, reliable, repeatable response. The Sensor are available in several configuration. The sensor elements are protected by a sintered metal flame arrestor and coating with PTFE that admits gas samples while containing flame and moistures which might otherwise cause an explosion and correction. The standard GD series is a conduit mounting sensor compatible with location requiring explosion-proof equipment. The stainless steel shell has a bell-shaped rain shield. The GD series with plug-in option sensor which can be installed into a wall mounting plate or box for differential application.



REMOTE AMPLIFIER

The main purpose of a remote amplifier is to convert the low output level of the sensor to high level signal when transmitting over long lines to the centrally location adjustments. Sensor reading are converted to miniampere by the remote amplifier thus allowing transmission over a great distance with no loss of signal. A live zero current of 4.0 mA (miniampere) insure that a total loss of signal due to disconnection or sensor malfunction will cause a downscale reading and resultant trouble alarm. The high level current signal allows housed in a conduit mounting explosion proof junction box.

GD CITY series GAS DETECTOR

Sensor Transmitter Robust Design

Dry Electrochemical of sensor

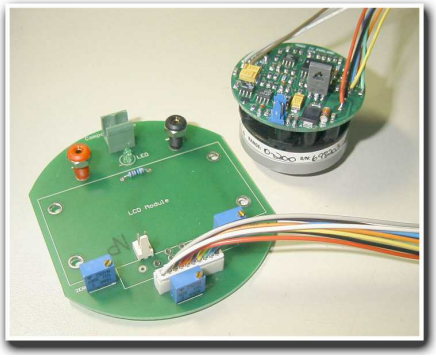
Sensor Expected Operating life 2 years

Housing Explosion proof design

One man calibration

SENSOR TO SUIT THE NEED

The Toxic Gases detectors operate on the dry electrochemical principle. This method has proven superior for reliable, repeatable response. The Sensor is available in several configurations. The sensor elements are protected by an aluminum cartridge house that avoid to catch the strong wine and water lips drop by have rain fall and moistures that might otherwise cause an influence and correction. The standard sensor module is a conduit mounting sensor compatible with location requiring explosion-proof equipment.



REMOTE AMPLIFIER

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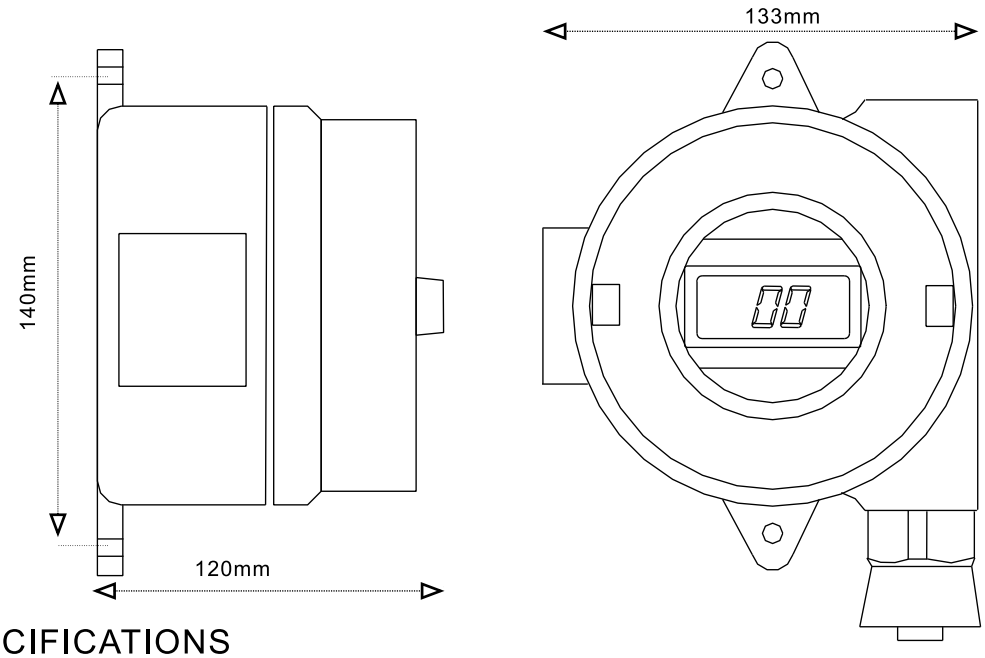
GASTOR

GD series GAS DETECTOR MODULES

New Ceramics Catalytic Combustion Sensor

MODEL: GD-HW



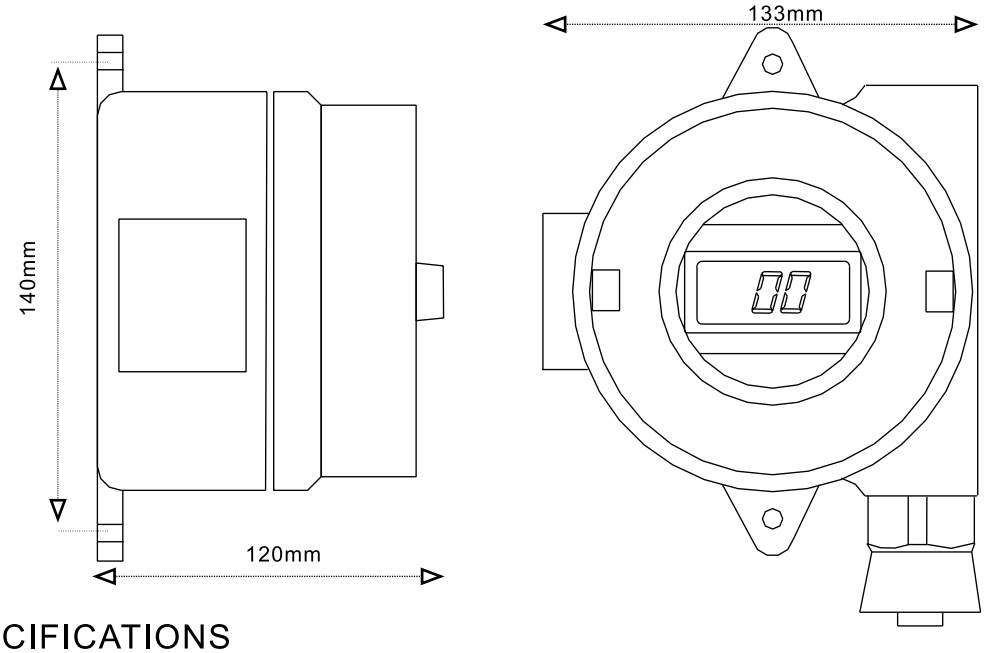
SPECIFICATIONS

Detection principle	New Ceramics Catalytic method
Gas sampling type	Diffusion
Gas detected	Combustible gases (CH4)
Measure range	0-4000ppm or 0-100% LEL
Output signal	4-20mA **Linear** (standard type) Sensor Signal (S type) A type for RS-485 digital output (option item)
Local Display	3 1/2 digital LCD (standard type) 4 digital LED display D type (option item)
Alarm output	H, HH two stage relay (option item) 220VAC/1A 110VAC/2A Relay R type
Remote span test check	control signal for remote span check (option item)
Response time	0 to 90% less <30 sec
Operating condition	-10℃ to 60℃/ 0 to 95 % R.H.
Accuracy	+/-5% of Full Scale
Repeatability	+/- 5% of Full Scale
Sensor exciting voltage	Regulated +1.5 VDC
Operating power	16 to 30 VDC
Typical sensor life	More than 5 years
Housing Explosion proof	IP65 / Class1, Division 1 Group B,C,&D
Conduit connection	3/4" NPT

GD series GAS DETECTOR MODULES

Semiconductor Sensor

MODEL: GD-SG



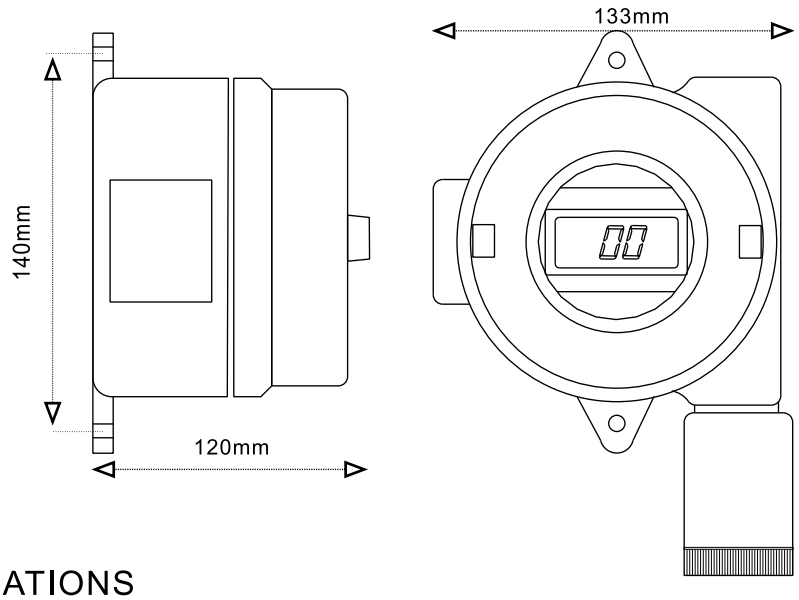
SPECIFICATIONS

Detection principle	Semiconductor method
Gas sampling type	Diffusion
Gas detected	Toxic and Combustible gases
Measure range	0-4000ppm
Output signal	4-20mA (standard type)
	Sensor Signal (S type)
	A type for RS-485 digital output (option item)
Local Display	3 1/2 digital LCD (standard type)
	4 digital LED display D type (option item)
Alarm output	H, HH two stage relay (option item)
	220VAC/1A 110VAC/2A Relay R type (option item)
Remote span test check	Control signal for remote span check (option item)
Response time	0 to 90% less <30 sec
Operating condition	-10℃ to 60℃/ 0 to 95 % R.H.
Accuracy	+/-5% of Full Scale
Repeatability	+/- 5% of Full Scale
Operating power	16 to 30 VDC
Typical sensor life	More than 5 years
Housing Explosion proof	IP65 / Class1, Division 1 Group B,C,&D
Conduit connection	3/4 inch NPT

CITY series GAS DETECTOR MODULES

Electrochemical Method Diffusion Type

MODEL: GD-SG-T



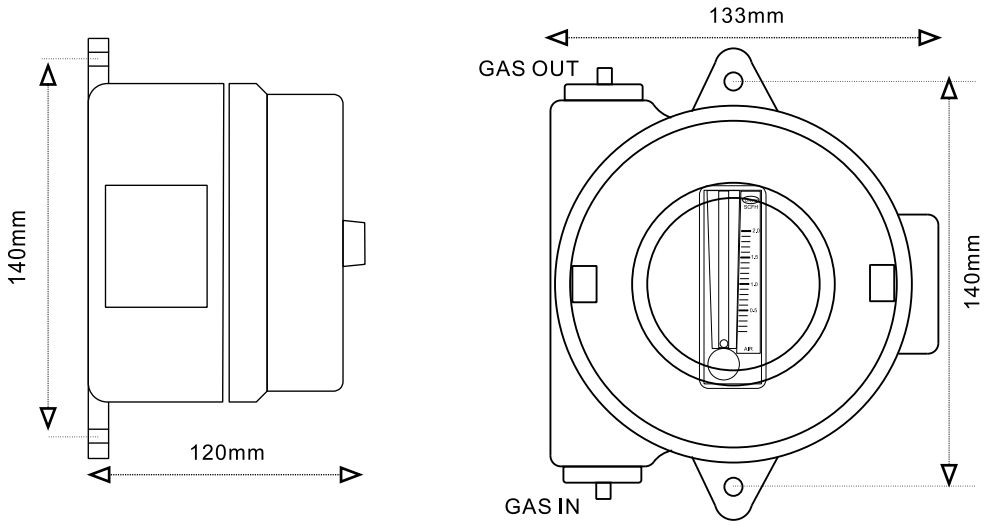
SPECIFICATIONS

Detection principle	Dry Electrochemical method
Gas sampling type	Diffusion
Gas detected	Toxic and VOC gases
Measure range	0-10,0-20,0 - 50,0-100,0-200,0-300 0-500,0-1000,0-2000 ppm
Maximum Overload	2000ppm
Output signal	4-20mA (standard type) A type for RS-485 digital output (option item)
Local Display	3 1/2 digital LCD (standard type) 4 digital LED display D type (option item)
Alarm output	H, HH two stage relay (option item) 220VAC/1A 110VAC/2A Relay R type (option item)
Remote span test check	control signal for remote span check (option item)
Response time	0 to 90% less <30 sec
Operating condition	-10℃ to 60℃/ 15 to 95 % R.H.
Accuracy	+/-2% of Full Scale
Repeatability	+/- 2% of Full Scale
Output Drift	<5% signal loss/year
Output Sign	4 - 20 mA/24VDC (standard type)
Operating power	16 to 30 VDC
Typical sensor life	More than 2 years
Housing Explosion proof	IP65 / Class1, Division 1 Group B,C,&D
Conduit connection	3/4"NPT

GD series GAS SAMPLING PUMP

Magnetic Diaphram Pump

MODEL: GD-HKB-P



SPECIFICATIONS

Operating Power	16 to 30VDC
Sample Range	0-2.0 SCFH (0-1000ml/min)
Pump Life	1 year
Max. Pressure	6.6KPa
Max. Vacuum	-6.6KPa
Steady Electric Current	0.3A/24VDC
Housing Explosion Proof	IP66/NEMA 4X / Class1 Division 1 Group B,C,&D Approved by UL,CSA,FM.
Condult Connect	½"or 3/4" NPT
Operating Temperature	-10 to 60℃
Operating Humidity	0-95% R.H.