

Fixed Gas Detector

TC100N FIXED GAS DETECTOR

TC100N is a fixed gas detector installed in a place where potential gas hazard exists to measure oxygen, toxic gas and combustible gas. With ATEX approval, It is suitable for explosive environment use. It communicates with the control panel through 4-20mA analog output or RS485 digital signal.

FEATURES

- ATEX approved
- 4-20mA analog or RS485 digital output
- 2 relay output for 4-20mA type
- Sensor module design, easy for replacement

APPLICATION

Steelworks, Petrochemical plants, Shipyards, Water treatment plants, Mines, Power plants, Food industry etc.



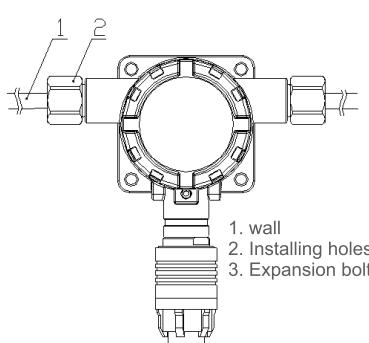
INSTALLATION METHODS

Note: Fix the detector with sensor head downwards. According to the installation place, fix the detector onto the wall or gas pipes.

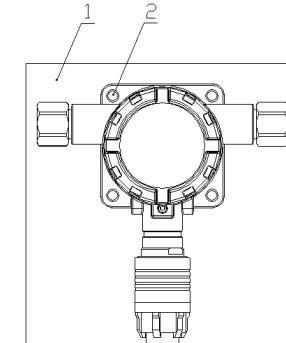
Method 1: Wall mounted: According to the device dimension, choose a suitable wall. First fix devices on the wall by 4pcs of M6×60 bolts.

Method 2: Screw Butt joint Connection: If there is pipe screw of G1/2 on the spot, the user can butt joint the device to the pipe screws and then screw tightly the device.

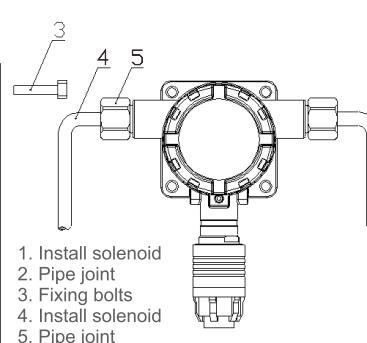
Method 3: Pipe Installation: If there is 1" to 2" (diameter) pipe, the user can use 2 U-type bolts to fix the hanging plate on the pipe, then fix the detector onto the plate. Or, the user first fix the detector onto the plate and then fix the plate on the pipe.



Connection for screw butt type
Method 1



Connection for screw butt type.2
Method 2



Pipe installation drawing
Method 3

SPECIFICATIONS

Measuring gas	O2	CO	H2S	Combustible	Mounting type	Wall mounted
Measuring range	0-25%VOL	0-500ppm	0-100ppm	0-100%LEL	Working temperature	Toxic gas: -20°C ~ +50°C Combustible: -40°C ~ +70°C
Resolution	0.1%VOL	1ppm	1ppm	1%LEL	Working humidity	≤95%RH (no condensation)
Sensor type	Electrochemical		Catalytic	Operation voltage	DC24V±25%	
Sensor life	1 year	2 years	2 years	2 years	Consumption	<2W
Measuring type	Diffuse naturally				Ingress Protection	IP65
Response time	Toxic gas and O2: $T_{90} \leq 60s$; Combustible: $T_{90} \leq 30s$				Housing material	Chamber: Aluminum alloy; Sensor cover: Stainless steel
Signal output	4-20mA / RS485				Dimension and weight	196mm*186mm*68.5mm, about 1.2kg
Alarm output signal	2 programmable relays for 4-20mA type				Approval	 II 2G Ex db IIC T6 Gb
Conduit connection	G1/2"				Cable / distance	
	4-20mA type: 1.5 MM ² , 3 wire, shielded, 1000m (maximum) ; RS485 type: 1.5 MM ² , 4 wire, shielded, 1000m (maximum)					

Welcome to Hanwei !



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