

## TGas-1013 On-line Infrared Gas Transmitter



### Brief Introduction

TGas-1013 on-line infrared gas transmitter is based on the internet of things's air quality monitoring instruments. It is used for online monitoring of toxic gases, SF<sub>6</sub> gas, O<sub>2</sub>, temperature, humidity, etc. It has a fast response, high accuracy, and a variety of selectable signal output modes. It has passed the third-grade EMC industry test. It complies with the IEEE 802.15.4 wireless communication standard and supports the ZigBee communication protocol.

It is widely used in such electric power, Laboratory, etc. It is not easy to wire on the occasion with stable and reliable performance.

### Main Features

- ◆ Compact structure, elegant appearance, easy installation
- ◆ RS485 bus, ZigBee wireless, Relay switch signal, 4 ~ 20mA four kinds of output mode output.
- ◆ Applies to toxic gases and sulfur hexafluoride (SF<sub>6</sub>) gas, oxygen (O<sub>2</sub>), temperature and humidity measurements, Detail see selection table
- ◆ Passed through the third grade EMC industry test
- ◆ Relay switching can be directly connected to the sound and light alarm device, used as a stand-alone alarm unit;
- ◆ In terms of electromagnetic compatibility and protection to meet the following requirements:
  - GB / T 17626.2-2006 3 level electrostatic discharge
  - GB / T 17626.4-2008 Level 3 EFT
  - GB / T 17626.5-2008 level 3 lightning (surge)

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**Technical Parameters**

Parameters	Characteristics
Detectable gas	Sulfur hexafluoride, oxygen, poisonous and harmful gases
Communication Interface	RS485 bus.ZigBee wireless .Relay switch signal,4 ~ 20mA four kinds of output mode output
Insulation Resistance	≥1000MΩ
Measurement range	Refer to lectotype table for details
Sampling method	Diffusion
Working environment	Temperature: -30℃ ~ 60℃ Pressure: 950~1050hPa humidity: 10 ~ 90% RH (non-condensing)
Input voltage	24VDC (12VDC~24VDC)
Rated Power	3W
Display	6 * 2 LCD
Dimensions	142 mm X100 mm X58mm
Weight	350g

**Lectotype Table(part gas)**

Model		Range	Accuracy
SF <sub>6</sub>	NDIR	0-1500ppm	± 2% F.S.
O <sub>2</sub>	Fluorescence quenching	0~25%	± 2% F.S.
CO--1	Electrochemical	0-500ppm	± 5% F.S.
CO--2	Electrochemical	0-1000ppm	± 5% F.S.
H <sub>2</sub> S	Electrochemical	0-100ppm	± 5% F.S.
SO <sub>2</sub>	Electrochemical	0-20ppm	± 5% F.S.
H <sub>2</sub> --1	Electrochemical	0~4% LEL	± 2% F.S.
H <sub>2</sub> --2	Electrochemical	0-1000ppm	± 5% F.S.

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