

## RL-W150 Infrared Gas Sensor



Technical parameters:

Measuring principle: NDIR( non-splitting principle);

Measurement components and ranges:

Gas component	model number	measuring range	remarks
CO <sub>2</sub>	RL-W150CO <sub>2</sub>	0~10/100/500PPm	Range optional
CO	RL-W150CO	0~100/1000PPm	Range optional
CH <sub>4</sub>	RL-W150CH <sub>4</sub>	0~300/1000PPm	Range optional
C <sub>3</sub> H <sub>8</sub>	RL-W150C <sub>3</sub> H <sub>8</sub>	0~300/1000PPm	Range optional
SF <sub>6</sub>	RL-W150SF <sub>6</sub>	0~200/2000PPm	Range optional
NH <sub>3</sub>	RL-W150NH <sub>3</sub>	0~100/1000PPm	Range optional
SO <sub>2</sub>	RL-W150SO <sub>2</sub>	0~500/2000PPm	Range optional
NO <sub>X</sub>	RL-W150NO <sub>X</sub>	0~500/2000PPm	Range optional

Resolution :0.1 PPM( based on the range of measurements);

Precision: FS;  $\pm 2$  percent;

Stability: Zero drift  $\pm$  FS2per cent;

Range drift  $\pm 2$  FS;

Repeatability: FS±1 per cent;

Sample gas flow :200~800 ml/ min;

Response time : $\tau_{90} \leq 10$  seconds;

Working voltage :24 VDC±5;

Drive current: less than 800 mA;

Air intake mode: continuous air intake;

Sample gas temperature :0°C~+50°C;

Working environment: temperature :-10°C~+50°C;

Moisture : $\leq 90\%$  RH;

Preheating time :2 h;

Communication mode: digital output Modbus ASCII 3.3VDC TTL, can realize two-way communication with computer;

Analog output: isolate 4~20 mA standard signal, load resistance less than 500 Euro;

Shape size :62 mm( long)×33 mm( wide);

Service life :>5 years (under normal service conditions);

Features:

Compact structure, easy to install;

Adopt PID temperature control technology insulation;

The design of imported light source and dual-channel detector has the characteristics of long life, high precision, fast response and good stability;

Mass production, low price;

Stainless steel gold-plated tube, corrosion resistance;

Dual path design, higher resolution

Applications:

It is widely used in air separation industry, cement and metallurgical industry gas analysis, greenhouse and scientific laboratory gas analysis, chemical fertilizer chemical industry and other industrial processes in gas analysis, flue gas composition gas analysis, environmental detection, medical monitoring, coal chemical gas monitoring, automobile exhaust analysis and so on.