

## RL-H150 Infrared Gas Analysis Module



### Technical parameters:

Measurement principle: NDIR principle;

Measurement components and ranges:

RL-H150 measurement components and ranges			
Gas component	model number	measuring range	remarks
CO <sub>2</sub>	RL-H150CO <sub>2</sub>	0~10%/30%/50%/100%	Range optional
CO	RL-H150CO	0~10%/30%/50%/100%	Range optional
CH <sub>4</sub>	RL-H150CH <sub>4</sub>	0~10%/30%/50%/100%	Range optional
C <sub>3</sub> H <sub>8</sub>	RL-H150C <sub>3</sub> H <sub>8</sub>	0~10%/30%/50%/100%	Range optional
SF <sub>6</sub>	RL-H150SF <sub>6</sub>	0~10%/30%/50%/100%	Range optional
NH <sub>3</sub>	RL-H150NH <sub>3</sub>	0~10%/30%/50%/100%	Range optional

Resolution :0.01 per cent (based on range of measurements);

Linear error: FS;  $\pm 2$  per cent

Stability: zero drift  $\pm 2\%$  FS;

range drift  $\pm 2\%$  FS;

Repeatability: FS;  $\pm 1$  per cent;

Sample gas flow :200~800 ml/ min;

Response time: T90 $\leq$ 10 seconds;

Working voltage :6 VDC $\pm 5$ ;

Drive current: less than 140 MA;

Air intake mode: continuous air intake;

Sample gas temperature :0 $^{\circ}$ C~+50 $^{\circ}$ C;

Working environment: temperature :-10 $^{\circ}$ C~+50 $^{\circ}$ C;

humidity : $\leq 90$  per cent;

Preheat time :3 min;

Mode of communication: sensor with digital output Modbus ASCII 3.3VDC TTL, can achieve two-way communication with computer ;(external output board output 4-20 mA or RS485)

Shape size: RL-H150: 62mm( length) $\times$ 33 mm( width);

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

### Features:

Design of imported light source and dual-channel detector, built-in temperature compensation, with long life, high precision, fast response,

good stability and so on;

Small module, compact structure, easy to install;

Advanced technology, high cost-performance;

### **Applications:**

It is widely used in gas analysis in cement and metallurgical industry, greenhouse and scientific laboratory gas analysis in greenhouse, chemical fertilizer and chemical industry, gas analysis in industrial process, gas composition gas analysis in flue gas, environmental monitoring, medical monitoring, exhaust analysis, etc.