

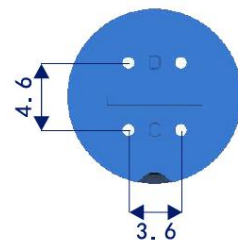
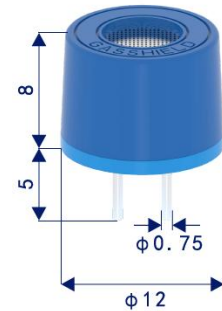
UGT-C5C Acetylene specific sensor

FEATURES

- Good long-term stability
- Excellent repeatability
- Superior linearity
- Strong vibration resistance
- Excellent anti-poisoning ability

ELECTRICAL

Supply Voltage	DC3.0±0.1V
Working current	DC175~195mA(at 3.0V)
Power consumption	<600mW
Zero point output	±25mV
Sensitivity	≥18mV / 50%LEL acetylene



Product Dimensions

ENVIRONMENTAL

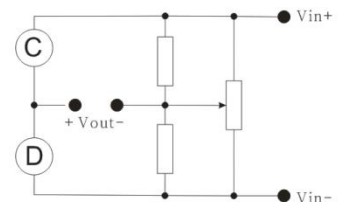
Operating Temperature Range	-40~+70℃
Operating Humidity Range	Continuity 15~90%RH Intermittent 0~99%RH

STORAGE ENVIRONMENT

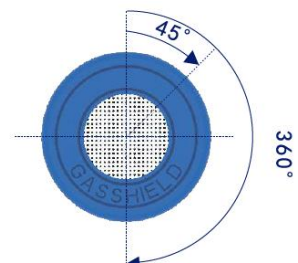
Recommended Storage Temp	-20~+50℃
Relative humidity	Below 95% RH (without condensation)

TECHNICAL SPECIFICATION

Measurement Range	0~100%LEL
Gas Detected	Acetylene
Accuracy	±3%LEL
Zero drift	±2%LEL
Linearity (0~100%LEL)	±5% (Calibrate at 60%LEL)
Full range deviation	±3%LEL
Response time	50%LEL T90<10s
Operating Principle	Catalytic combustion
Recovery time	15s
Operating life	5 years (in clean air)
Warranty period	2 years (from the date of shipment)



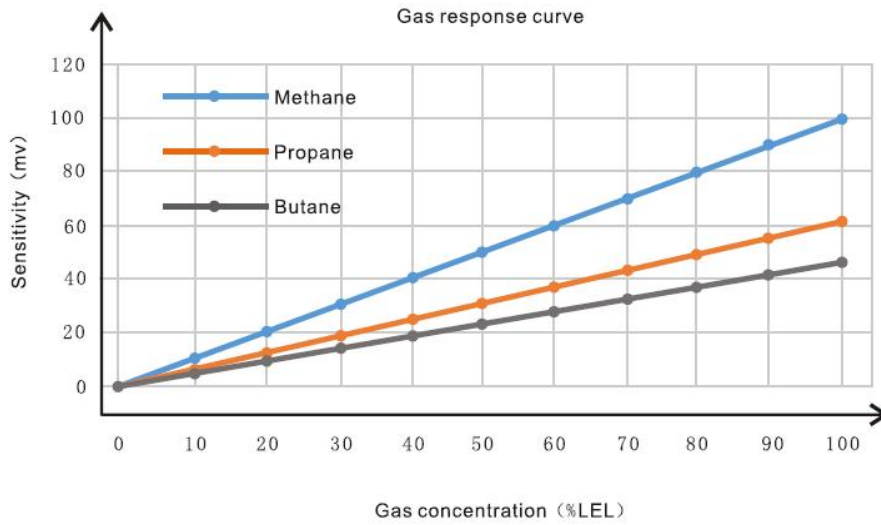
Reference detection circuit



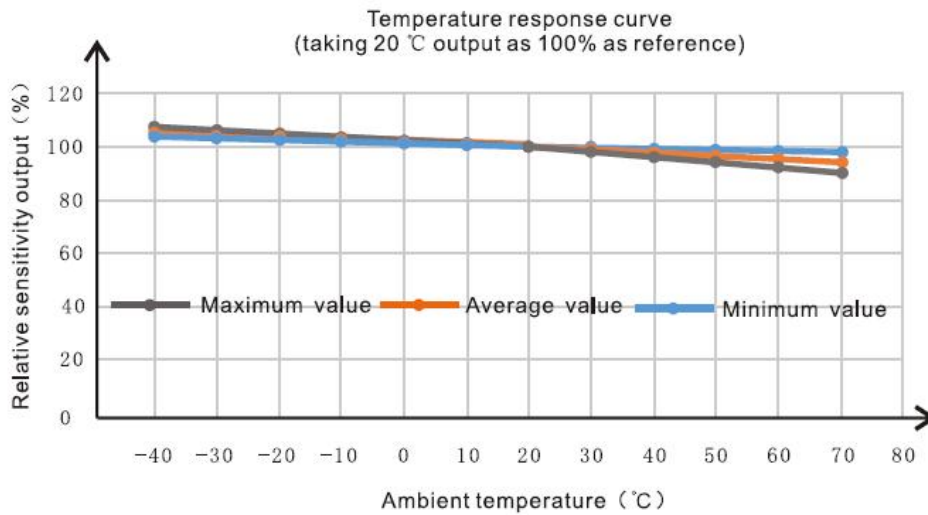
Orientation

When the orientation of the sensor at the detection end and compensation end changes (the sensor rotates 360°vertically), the change of the sensor output signal is ± 0.5% LEL

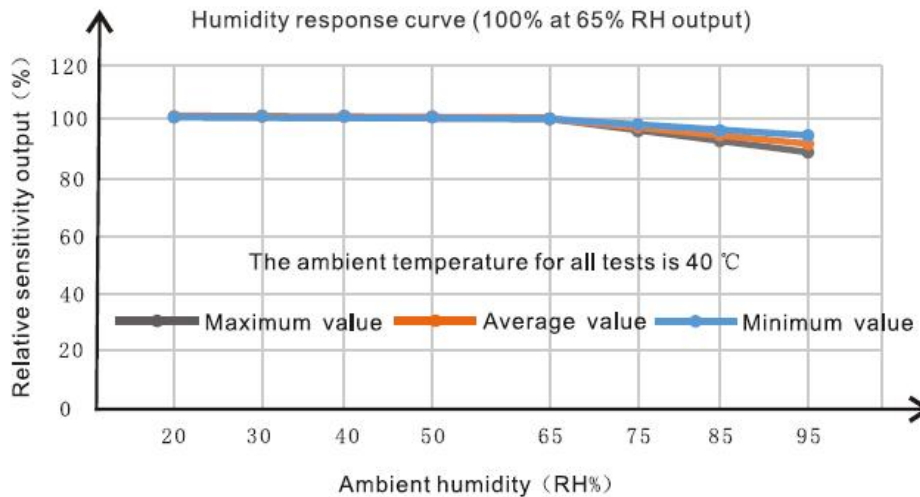
Sensitivity characteristic



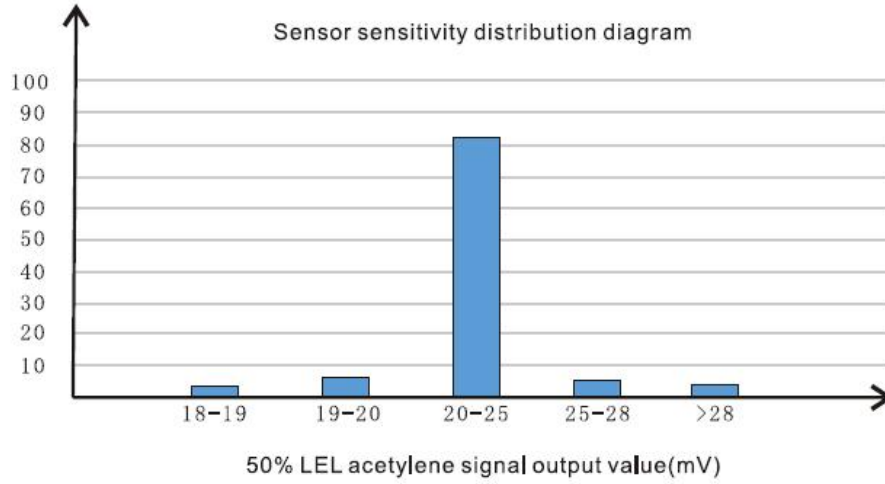
Temperature response characteristics



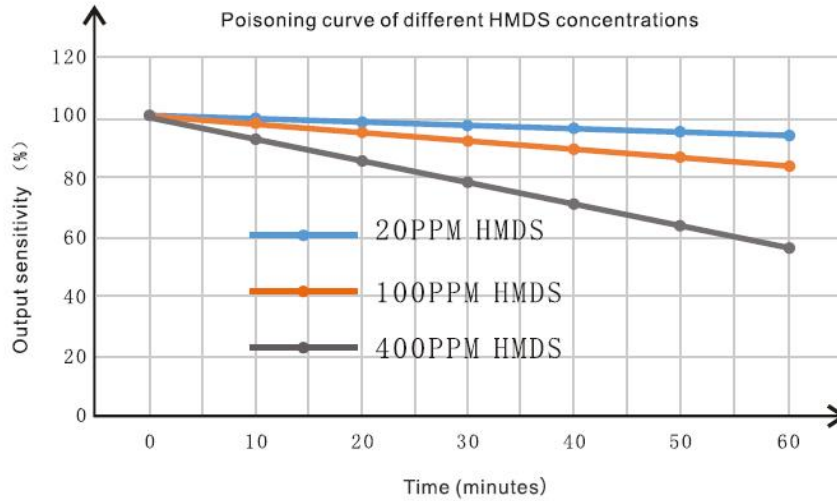
Humidity response characteristics



Gas sensitivity distribution



Anti-toxicity ability



Long-term stability

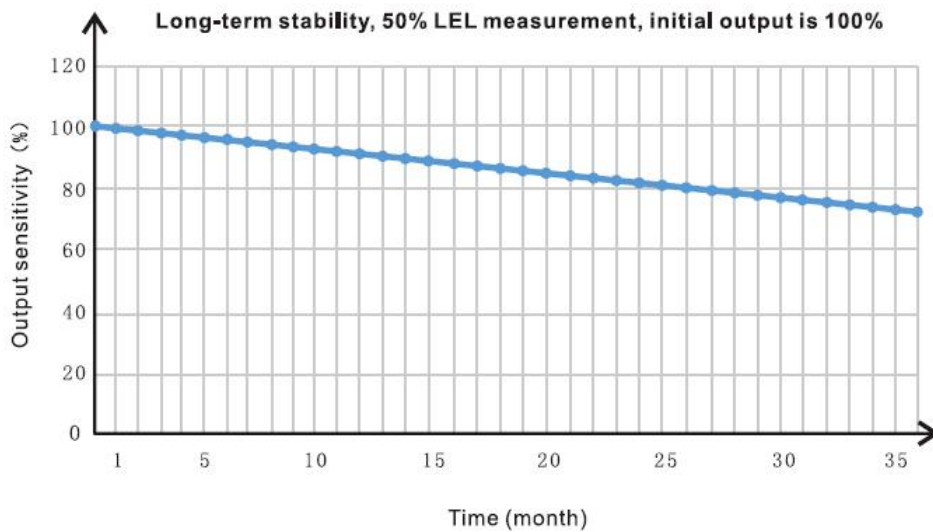


Table 1 Sensitivity

Gas/steam	Relative sensitivity%	Gas/steam	Relative sensitivity%
Acetylene	100	Butane	140
Methane	330	Isobutanol	130
Hydrogen	270	Butanone	130
Propane	200	N-pentane	110

The data contained in this document is intended for guidance only and it is the Clients' responsibility to perform any necessary tests to ensure correct performance of this product in specific application for which it is intended.

As this product may be used by the Client in circumstances outside the control of Our company, we cannot give any warranty as.

In the interest of product improvement, Our company reserve the right to alter and amend the product and its performance without notice.