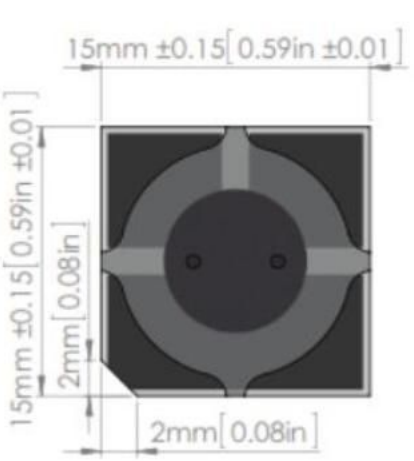
3SP_H2S_50

50 PPM Screen Printing Hydrogen Sulfide Sensor



TOP FACE

SIDE PROFILE

chara-cteristic

- Small size, low profile (15x15x3.8mm)
- Longevity (10-year life expectancy)
- Quick response (usually 15 seconds)
- Long term stability (100 ppm overload)
- Low power (0 mW @0 mV bias)
- Individual calibration
- Pass ROHS certification

apply

- Fixed industrial safety monitoring
- Portable industrial safety detection
- Portable personal safety monitor
- Bad breath breath test
- Indoor air quality monitoring
- Outdoor air quality monitoring

Description

Screen-printed electrochemical sensors have revolutionized current technological standards, offering innovative applications for consumer and industrial safety monitoring. These sensors deliver superior performance at competitive prices. Their ultra-thin design enables seamless integration into wireless, handheld, and networked systems. With their high performance, cost-effectiveness, and compact size, these sensors stand out as ideal solutions for health, environmental, industrial, and residential monitoring needs.

measuring range	0 - 50 ppm
consistency	<Read 3% of the reading
response time	<30s (usually 15 seconds)
sensitivity	250 +/- 50 nA/ppm
Maximum overload (1 hour, according	100 ppm
to EN20291-1) expected service life	> 5 years (10 years @ 23±3°C; 40±10% RH)
operating temperature range	-40-50℃ (-20-40℃ recommended)
Working humidity range-non-condensing	0 -100% RH (15-95% recommended)

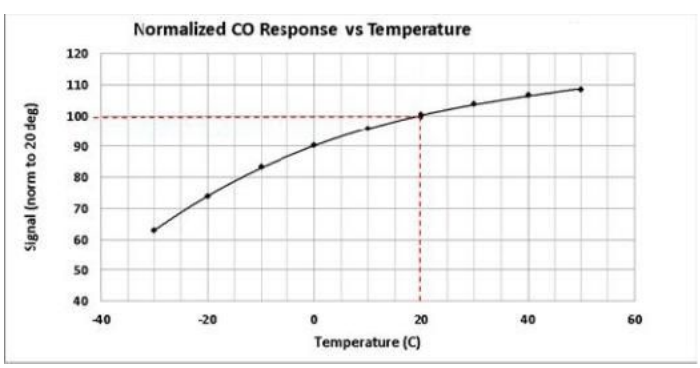
cross sensitivity

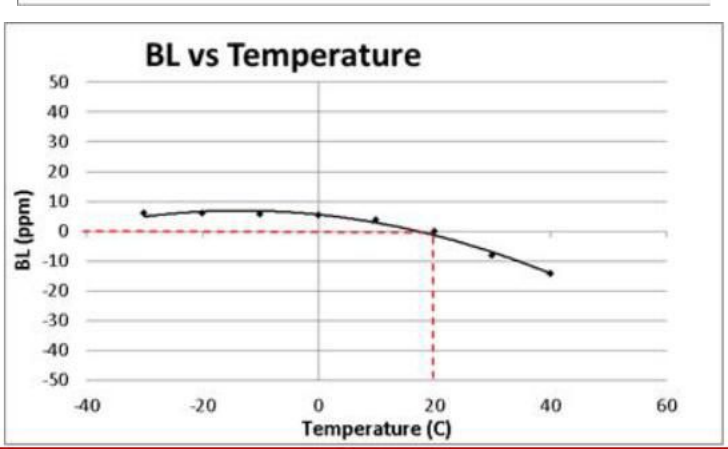
Gas/steam	potency	Typical response PPM H2S
Carbon dioxide	5000 ppm	< 1
methane	3000 ppm	< 1
hydrogen	100 ppm	100
Ethyl isopropyl alcohol	400 ppm	< 1
	200 ppm	Not detected
acetone ammonia nitrogen dioxide	200 ppm	Not detected
	100 ppm	< 1
hydrogen sulfide	10 ppm	< -1
carbon monoxide	20 ppm	20
	100 ppm	< 1
sulfur dioxide	20 ppm	< 5
chlorine gas	20 ppm	< -5
nitric oxide	50 ppm	< 10

Temperature Effect

Temperature fluctuations have predictable and easily compensatable effects on sensor signals. The chart below demonstrates the typical temperature characteristics of the 3SP_CO_1000 sensor under constant humidity (40-50% RH). These consistent and repeatable temperature patterns can be effectively compensated for using appropriate thermistors or firmware.

Note: The temperature characteristics of *hydrogen sulfide* sensors may vary, but they are still easy to compensate for.





深圳市杰晟兴电子有限公司 JM Components Limited
地址：深圳市福田区中航路7号鼎诚国际大厦南座2007室 邮编：518031
手机：13662266995 马少良 电话：0755-83951311 传真：0755-83952401
官网：cn-sensor.com 电邮：jackson@jmcomponents.com