

## **Electrochemical Sulfur Dioxide Sensor**

# SO2-MD-200



## **Design Features**

- Measurement for High Concentration
- Excellent Selectivity
- Linearity
- Stability
- High Reliability
- Perfect Leak-proof Structure

## **Specifications**

## **Sensitivity Characteristics**

Sulfur Dioxide
$0\sim$ 100ppm
500ppm
200 ± 50 nA/ppm
± 2%
0.2ppm
-0.5ppm to +1.5ppm
< 30seconds
< 0.5ppm
< 2% / month
> 2years

Performance data conditions: 20  $^{\circ}\text{C}$  , 50%RH and 1013mBar, using MGK SENSOR recommended circuitry.

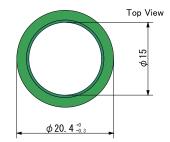
## **Operating Conditions**

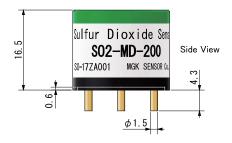
-30 ∼ 50°C
30 1 30 C
$15\sim 90\%$ RH
Atmospheric ± 10%
10Ω
0mV
None
0 ~ 20℃
6months

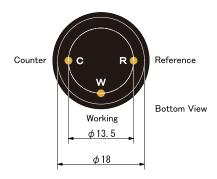
## **Physical Characteristics**

Cap Color	Green
Weight	4.5 g (approx.)

## **Appearance and Dimensions**







All dimensions in mm
All tolerance +/-0.1 mm unless otherwise stated

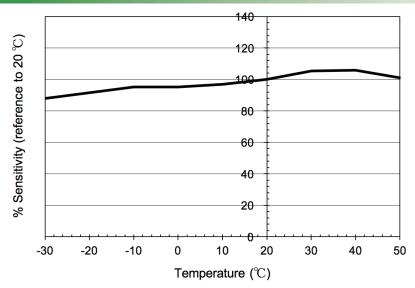
NOTE: Do not solder to electrode pins. Use exclusive sockets.

Do not blow organic solvents, paints, chemical agents, oils or high concentration gases onto sensor.

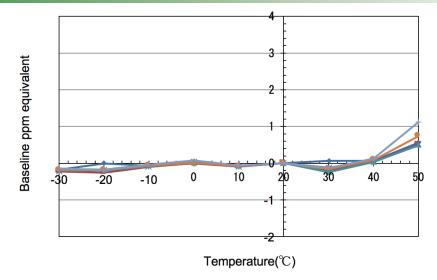
## **Typical Cross Sensitivities**

Gas	Concentration	Typical Sulfur Dioxide
	(ppm)	Concentration (ppm) Equivalent
Sulfur Dioxide	100	100
Carbon Monoxide	300	< 1.5
Carbon Dioxide	5000	0
Hydrogen	400	< 1
Hydrogen Sulfide	15	0
Nitric Oxide	50	0
Nitrogen Dioxide	10	-10
Ammonia	20	0
Chlorine	5	-2

## **Temperature Dependency**



## **Baseline Shift**



#### NOTE: S02-MD-200 DN-2062 Jun. 2015

As the products may be use outside control of MGK SENSOR, the information provided is given without legal responsibility. Customer should test under their own conditions, to ensure that the sensors are suitable for their own requirements.

In accordance with the company's policy of continued product improvement, MGK SENSOR reserves the right to make product changes without notice.