

### • Description

This is a miniature Methane sensor for measuring Methane gas concentration. It is designed mainly for handheld and compact instruments.

### • Performance Characteristics

|                                   |                            |
|-----------------------------------|----------------------------|
| Nominal Range:                    | 0 ~ 100% LEL               |
| Maximum Overload:                 | 100% LEL                   |
| Sensitivity (20°C):               | 43 ± 8 mV/%CH <sub>4</sub> |
| Response Time (T <sub>90</sub> ): | < 10 s                     |
| Zero Signal (20°C):               | < ±0.3 μA                  |
| Working Current:                  | < 125 mA                   |
| Linearity:                        | 0 ~ 80% LEL                |
| Working Voltage:                  | 2.5 ± 0.1 VDC              |
| Resolution:                       | < 1% LEL                   |

### • Environmental

|                           |                                |
|---------------------------|--------------------------------|
| Temperature Range:        | -20°C ~ 50°C*                  |
| Pressure Range:           | 80 ~ 116 kPa                   |
| Humidity Range:           | ≤ 95%RH (25°C)                 |
| Hydrogen Sulfide Content: | ≤ 6 ppm (non-toxic components) |

\* When the ambient temperature is above 40 °C or below -10 °C, the daily working time in such an environment shall not exceed 2 hours.

### • Life Time

|                           |                                |
|---------------------------|--------------------------------|
| Recommended Storage Temp: | 0°C ~ 40°C                     |
| Expected Operating Life:  | 3 years in clean air           |
| Storage Life:             | 6 months in original packaging |
| Warranty:                 | 12 months                      |

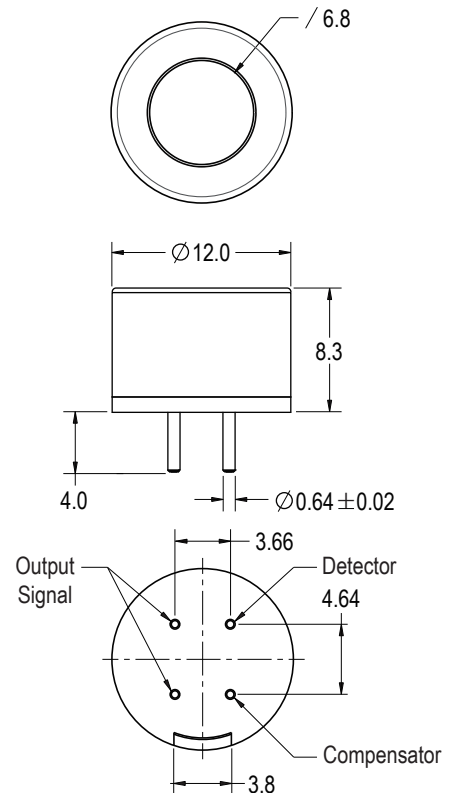
### • Physical Characteristics

|                   |       |
|-------------------|-------|
| Housing Material: | Nylon |
| Weight (Nominal): | 1 g   |
| Orientation:      | None  |

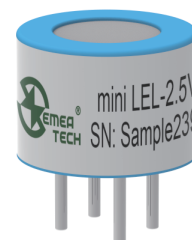
### • Installation

Inappropriate use of the pins in product design will affect the sensor functionality. If the sensor is used in extreme environmental conditions, please contact us for more details.

### • Product Dimensions



(The two signal output terminals need to be short-circuited in actual application)



All dimensions in mm

All tolerances ±0.20mm unless otherwise stated

### • Note

The performance data in this document are conducted by using SemeaTech recommended test circuitry and test environment at 20°C, 50%RH and 1 atm. Sensor performance varies under different environmental conditions. Please contact us if you need more details.



- **Cross-Sensitivity Data**

- **Temperature Data**

- **Safety Note**