



AS330

Metal oxide sensor management system



Adopt advanced
sensor algorithms

It can accurately manage 8
kinds of metal
oxide sensors

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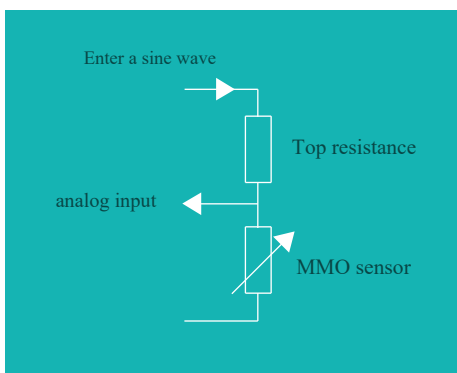
Metal oxide sensor management system

In the case of metal oxide sensor technology, an additional advancement is the replacement of DC with AC demodulation in sensing materials. This approach provides complementary atmospheric composition information from both the real and imaginary components of sensor impedance, while introducing marked enhancements in sensitivity and selectivity.

Based on product design, the SMS system can manage up to eight metal oxide sensors. It features a digital control loop circuit that precisely regulates sensor heater temperatures. Individual sensors can be configured with preset resistance and temperature coefficients at 0°C, while multiple heaters support customizable parameter algorithms including temperature ramp profiles, timed schedules, and external RS 485 interface controls. Temperature setting algorithms can be paired or dynamically integrated into primary configurations as needed.

The SMS device measures the resistance of the sensing element in a potential distributor composed of a top resistor (which can be selected between 100 kR and 1MR via an onboard jumper) and a sensor by applying a controlled synthetic sine wave:

The PC monitoring software will display the sensor resistance, as it is a measure of the orthogonal (reactive) component.



parameter

- 4 or 8 MMO sensor channels, which can be used for various Different MMO sensors are configured
- Adaptive algorithm is used to control the heater temperature digitally There are several temperature curves to assist in the selection
- Real and imaginary part sensing element measurement
- It can be used with a variety of sensors to measure different gases
- Interface options are diversified, including CAN, RS485 and RS232
- Provide a suitable power supply to the 12V power plug
- PC monitoring software can be provided, or information that supports users to write their own interface software



165 W x 237 D x 57 H

The connector extends beyond the depth of the component.

Weight: 1144g

Maximum electrical load of 50W (only when all heaters are on)

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