

**MODEL: MCS-GSE-2.0**

APPLICATIONS

- Fruit Ripening chambers
- Cold Storages & machine room monitoring
- Cold Rooms & Clean rooms
- Ammonia leak detection in refrigerators
- Ventilation control for the agricultural and poultry industries

AMMONIA TRANSMITTER

The GSA-2.0 Gas transmitter is semiconductor based gas sensor which has low conductivity in clean air.

It has high sensitivity to ammonia gas. The sensor can detect concentrations as low as 30ppm in the air and is ideally suited to critical safety-related applications such as the detection of ammonia leaks in refrigeration system and ammonia detection in the agricultural field.

Fixed gas detection utilizes semiconductor sensors that feature a solid electrolyte. As ambient air passes through the sensor, electrodes within the electrolyte produce a current that digitizes the flow to produce a measured value that is transmitted as an analog signal. When levels reach a concentration higher than what is allowed per safety regulations, the ammonia gas sensor triggers a warning signal or alarm. This model comes with detection of 2 different range of sensing ammonia up to 300 ppm (typically used for gas leakage) and up to 5000 ppm (specially used in chemical industry to check concentration).

FEATURES

- High sensitivity to ammonia
- Quick response to low concentrations of ammonia
- Wired Serial Rs-485 Interface with Modbus RTU Protocol
- 4-20mA Analog Output
- Low Power Intrinsically Safe Models
- 7 Seg Display
- Relays for local alarming
- Temperature-compensated sensors
- Heater elements for low-temperature applications
- Simple one-person remote calibration
- Cost-Effective Poly Enclosure

TECHNICAL SPECIFICATIONS

Parameters	Description
Make	Multitech
Display	Digital Display 7 Seg
Sensor	NH3 (Semiconductor Technology)
Range	30-300 PPM / 0 – 5000 PPM
Output	4-20 mA / 0-20 mA
Accuracy	± 3% F.S.
Response Time	< 10s (25°C, in slow air)
Power	24 VDC
Output Load	500 Ω (current), > 2K Ω (voltage)
Operating Temperature	0 to 60°C
Storage Temperature	-40 to 100°C
Housing	ABS Enclosure
Warranty	12 Months Manufacturer Warranty



MULTITECH CONTROL SYSTEMS

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