

**MODEL: MCS-GSE-3.0**

APPLICATIONS

- Fruit Ripening chambers
- Cold storage
- Cold room
- Controlled Atmosphere Rooms
- Agricultural And Poultry Industries

FEATURES

- High sensitivity to ethylene
- Quick response to low concentrations of C₂H₄
- Wired Serial Rs-485 Interface with Modbus RTU Protocol
- 4-20mA Analog Output
- Low Power Intrinsically Safe Models
- 7 Segment Display
- Temperature-compensated sensors
- Heater elements for low-temperature applications
- Low Consumption
- Wide range of linearity
- High tensile strength
- Robust construction
- Easy maintenance /Calibration

ETHYLENE TRANSMITTER

The GSE-3.0 Gas transmitter has high sensitivity to ethylene gas. The sensor can detect concentrations as low as 20 ppm in the air and is ideally suited to fruit cold storage related applications where citric fruits are very sensitive for ethylene gas.

The GSE-3.0 Gas transmitter is semiconductor based gas sensor which has low conductivity in clean air. In the presence of a detectable gas, the sensor's conductivity increases depending on the gas concentration in the air which results in a signal hike.

Ethylene gas detectors are an essential part of workplace safety because the strong-smelling Ethylene gas can become toxic when exposed to air.

TECHNICAL SPECIFICATIONS

Parameters	Description
Detection Gas	C ₂ H ₄ (Ethylene)
Display	Digital Display 7 Segment
Detection Range	20-2000 ppm
Sensor Type	Semi –Conductor
Sensitivity	0.04 +/- 0.012 uA/ppm
Cross Sensitivity with other gases than target gas	Methane , Carbon- monoxide Isobutene ,n-Hexane Benzene Ethanol, Acetone
Filter	Filtering Sox, NO _x and H ₂ S
Resolution	50 ppm
Temperature Range	-15°C to 50°C
Pressure Range	Standard atmosphere +/- 10%
Response Time (T ₉₀)	<50s
Humidity Range	15%-90% RH
Power Supply	18-24 Vdc(reverse polarity protected)
Power consumption	Semiconductor sensor: 35mA, max. 0.85 VA
Output	Proportional, 4 – 20 mA, load ≤ 500 Ω overload



MULTITECH CONTROL SYSTEMS

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