Noventis Technologies

Ethylene Gas Monitor

XL-200 Series

Noventis XL-200 Ethylene Monitor / Controller

Ethylene gas in fruits and vegetables is a plant hormone which regulates the plant's growth and development as well as the speed at which these occur, much as hormones do in humans or animals.

The Noventis XL-220 Ethylene Analyser is an extreme sensitive ethylene monitor specifically designed for the precise measurement and control of Ethylene (C2H4) at ppm levels.

The unit is extremely suitable for measurement in fruit, postharvest vegetables, bulbs, trees, storage rooms, and scrubbers. The system can be extended for the measurement of Oxygen and Carbon Dioxide levels and offers web based monitoring should that be required.

To ensure piece of mind, the system can be extended with a fully automated calibration option which calibrates the Ethylene sensor based on a scheduled interval or manually by the end user. The monitor comes with alarm outputs when Ethylene levels are outside their required range or when no increase of Ethylene is measured.

- Internal aspiration pump
- Zero cross sensitivity to carbon dioxide
- Ethylene detection range 200 ppm
- Oxygen detection range 25%
- Carbon dioxide detection range 5%
- Long-life sample pomp
- Alarm threshold for low and high level Ethylene
- Large display controller with readout for each channel
- Ethernet Output for data logging
- Stainless steel whether proof housing

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Gas Detection & Life Safety
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Specifications

MODEL NUMBER XL-200 SERIES	
601210	Ethylene Monitoring – One Probe
601220	Ethylene Monitoring – Two Probes
601230	Ethylene Monitoring – One Probes
601240	Ethylene, Carbon Dioxide (1 probe)
601250	Ethylene, Carbon Dioxide & Oxygen (1 probe)
601211	Ethylene, one probe with auto calibration
601221	Ethylene, two probes with auto calibration
601231	Ethylene three probes with auto calibration

GENERAL	
Detection Range Ethylene	Standard range 0 … 200 ppm with 0.5 ppm increments (Lower range available)
Detection Range Carbon Dioxide	Range 0 … 5% with 0.1% increments
Detection Range Oxygen	Range 0 … 25% with 0.1% increments
Repeatability	For all gases 1% of signal
LT Drift	2% / Year
Temperature	-10°C … 50°C
Humidity (N/C)	15 … 99%
Detection Principle	Aspiration, Electrochemical, Infrared
Sampling Method	Intermittent
Measurement Interval	Approx. 20 minutes (customisable)
Power Requirement	85 … 250 VAC / 24 VDC (30 Watt)
Digital Outputs	RS232, RS485 and Ethernet 10/100Mbit TCP/IP RJ45
Relay Outputs	250 VAC / 6AMP
Fault Relay	One Normally Closed Contact (Can be programmed Normally Open)
Under / Over range contact	One Normally Open Contact (Can be programmed Normally Closed)
Solenoid / Ventilation Contact	One Normally Open Contact
Low Ethylene Cylinder Warning	One Normally Open Contact
Display	Large segment display 20mm
Dimensions	200 (h) x 300 (w) x 150 (d) mm
Enclosure	Stainless Steel
Weight	6.8 kg
Compliance	AS/NZS 61000-3-2