#### Accurate. Reliable. Cost Effective.

Emissions Monitoring for Compliance & Process Improvement



# ETD-300 Real Time Sub-ppb Ethylene (C2H4) Analyzer

## **Technology**

Introducing the world's most sensitive, compact, fast and user friendly ethylene analyzer. Based on the newest laser technology with fast response time for real time measurements, the ETD-300 ethylene analyzer, has a detection limit  $(2\sigma)$  of 0.3 ppbv with time resolution of 5 seconds.

Currently the ETD-300 is used for monitoring dynamic processes in plant physiology, molecular biology, post-harvest research, microbiology, ecology, environmental monitoring and medical applications around the world.

The ETD-300 is specially designed for non-specialists; it's single-button operation and specially designed software makes it easy to use for workers of all skill levels.



ETD 300 Ethylene Analyzer

#### **Features and Benefits**

- Online and absolute measurements
- Detection range 0-5 ppmv
- Gas flow rate 0.25-5 l/h
- Operating temperature between 10 and 28°C
- Low maintenance
- Easy to operate
- Analog input for logging of external data
- User friendly software included

### **Applications**

- Environmental
- Medical
- Agriculture
- Industry
- Biology

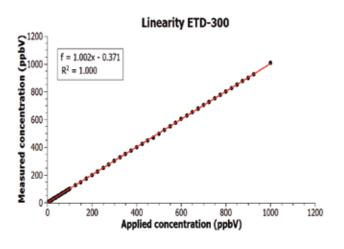
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In combination with the valve control box the ETD-300 can monitor up to six experiments simultaneously. It is fully controlled and analyzed by versatile software that produces data, which is ready to publish.

Other available peripherals include a catalyzer, that provides hydrocarbon free air to perform your experiments, scrubbers, cuvettes, and a fully automated mini incubator that controls light intensity, temperature and gas mixture, for small biological samples.

These products can also operate as stand-alone devices.

Performance Data	
<b>Detected Gas</b>	Ethylene (C2H4)
Measurement Range	0-5 ppmv
Noise Level (2σ)	0.3 ppbv
Accuracy	<1% of value or 0.3 ppbv
	(which ever is larger)
Linearity	Better than 1%
Stability	<1% over 24 hours
Zero Drift	+/-1 ppbv
<b>Measurement Time</b>	5s
Response Time T90	30 s (with airflow = 1 l/h)
Flow	0.25-5 l/h
Calibration	Annually
	(With calibrated gas mixture)
Warmup time	30min



Technical Characteristics	
Dimensions	50x50x14cm (LxWxH)
	(19" rack configuration, 3U)
Operating temperature	10-28 °C
Humidity	0-95 % (non-condensing)
Power input	90-264 VAC, 47-63 Hz
<b>Power Consumption</b>	<150 W
Analog input	0-5V
Gas input/output	1/8'' Swagelok

Interface	
Output	USB and RS232
	(19" rack configuration, 3U)
Control	- ETD-logger software
	Compatible with MS Windows XP
	or higher
	Min. 1 GHz, 512 MB RAM
	DLL for integration in other software
<b>Data Output</b>	.CSV, compatible with MS Excel,
	OOo Calc, Microcal Origin etc.
Display	Blue backlight LCD



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