



## Ethylene detector

### ETD-300

Detection limit 0.3 ppbv  
Time resolution 7 s



**Sensor Sense specializes in compact, highly sensitive ethylene detectors. Our user friendly detectors are robust and have a fast response time. This makes them suitable for real-time measurements.**

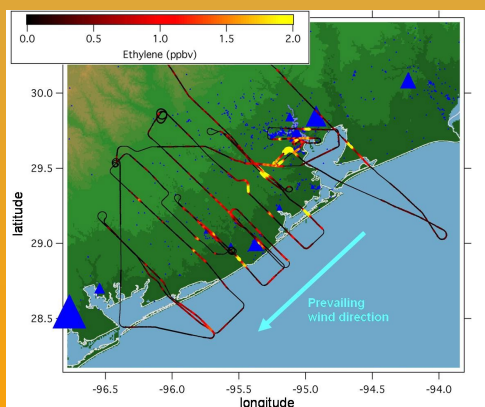
The ETD-300 provides the world-best sensitivity of 0.3 ppbv top-top noise level and a time resolution of 7 seconds.

### Applications

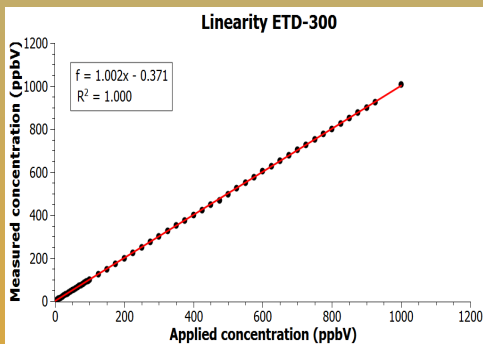
- Environmental
- Medical
- Agriculture
- Industry
- Plant Biology
- Microbiology
- Fruit Storage

### Features

- On-line and absolute measurements
- Detection range 0-200 ppmv
- Gas flow rate 0.25-5 l/h
- Operating temperature between 10 and 28 °C
- Low maintenance
- Easy to operate
- Analogue input for logging of external data
- User friendly software included



## Datasheet ETD-300



### Performance Data

<b>Detected Gas</b>	Ethylene (C <sub>2</sub> H <sub>4</sub> )
<b>Measurement Range</b>	0-300 ppmv
<b>Noise Level (top-top)</b>	0.3 ppbv
<b>Accuracy</b>	<1% of value or 0.3 ppbv, whichever is larger
<b>Linearity</b>	better than 1%
<b>Stability</b>	<1% over 24 hours
<b>Zero Drift</b>	+/-1 ppbv
<b>Measurement Time</b>	7 s
<b>Response Time T<sub>90</sub></b>	30 s (with airflow = 1 l/h)
<b>Flow</b>	0.25-5 l/h
<b>Calibration</b>	annually with calibrated gas mixture
<b>Warmup time</b>	< 30 min

### Technical Characteristics

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

### Interface

<b>Output</b>	USB
<b>Control</b>	- 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.
<b>Display</b>	Touch screen

The ETD-300 can be used in combination with the Sensor Sense valve control box to monitor up to six samples simultaneously. User friendly, versatile software produces ready to publish data.

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

These products can also operate as stand-alone devices.