

# Model 8302 Dilution Probe Controller and Pump Module

The Model 8302 Dilution Probe Controller integrates with source emission monitoring systems and common dilution probes such as the Oxydan DP7900.

The Model 8302 is designed for unattended operation and features an automatic restart function in case of power failure or loss of instrument air.



The 8302 performs the following functions:

- Controls probe temperature.
- Draws sample gas from the dilution probe.
- Provides a visual indication of measurement parameters.

## Features

- Chemically inert materials are used throughout the sampling system to prevent sample contamination.
- Teflon® lined diaphragm pump is used within the dilution probe to sample source gas.
- Automatic and regulated control of dilution probe temperature.
- Visual indication of operating parameters including flow rate and temperature.
- Alarm outputs including:
  - Moisture in sample line.
  - Low vacuum (bypassed for 2 minutes at start up).
  - Probe temperature 'out of range' or sensor failure
  - Dilution air failure or low flow rate.

## Specifications

Power requirements:	115/230VAC 50/60 HZ (specify when ordering).
Power consumption:	300W max. (not including probe heater).
Operating temperature:	10 - 40 deg C.
Maximum humidity:	90 % RH.
Dilution air:	nominal 5 l/min (depending on probe flow rate).
Alarm output:	Master alarm output in the event of a system fault.
Mounting:	19" rack or bench mount.
Umbilical length:	Maximum length to 100m.

### Dimensions

Rack:	2x 19" rack mount chassis, 5RU
Depth required in rack:	200mm each plus connections
W x H x D	490 x 225 x 300mm

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# Air1000

## Zero Air Purification System

The Ecotech AIR1000 is a specialized Plant Instrument Air cleanup system.

It is designed to remove contaminants such as SO<sub>2</sub>, NO<sub>x</sub>, CO, oils and particulates from plant instrument air and lower its dew point to less than -15° C.

The resultant 'zero air' can then be used in the Ecotech extractive dilution sampling system or for instrument calibration.



### Features

- Chemical scrubbers are used to remove SO<sub>2</sub>, NO<sub>x</sub>, H<sub>2</sub>S and CO<sub>2</sub> (dependent on application)
- HCS1000 Heated Scrubber used to remove CO (optional)
- HTO1000HC Heated Scrubber used to remove Hydrocarbons and CO (optional)
- Deltech 810 Series Filter provides efficient multistage filtration which removes dirt, oil and water without the need for a pre-filter. Each layer removes progressively smaller particles, mist and droplets.
- Includes powder coated metal panel (wall mount) with shutoff valve, Deltech mist separator, filter, coalescing regulator with gauge, safety relief valve, molecular sieve 5A scrubber, charcoal scrubber and DFU filter.



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