

Horiba AP-370 Series - *For Air Pollution Monitoring*

The [AP-370 Series](#) are highly sensitive ambient air pollution monitors that give precise, reliable measurements yet they are easy to maintain. These small compact systems are configured for:

- Ambient CO Monitor using cross flow modulation, Infrared (NDIR) absorption technology
- Ambient SO₂ Monitor with an innovative detector and new optical system for low background, high sensitivity using UV Fluorescence
- Ambient NO_x monitor using dual cross flow modulation type chemiluminescence and the referential calculation method
- Ambient THC monitor using the flame ionization detection method and selective-combustion.
- Ambient O₃ Monitor uses cross flow modulation type and non-dispersive UV absorption (NDUV)

Features:

- Automatic Calibration
- Auto-range function
- Selective Data Output - momentary values, integrated values, moving averages, and simple averages
- Storing data in memory - three simple averages and the integrated value
- Network Communications - serial port is standard, ethernet through an optional port.
- Memory card for data management
- Readout toggles to mg/m³, µg/m³ pt
- Pressure-compensation assures reliable data regardless of the weather.
- Easy to read LCD display with touch panel screen
- Input/output via RS-232C port (optional)



Thermal Gas - *Refrigerant Monitoring Technology*

Thermal Gas System's Photoacoustic IR provides the highest level of monitoring dependability through their line of [Haloguard](#) monitors.



Because no reference gas comparisons are required, only Photoacoustic Infrared (PIR) technology provides a direct measurement of refrigerant gas concentrations. Other

Non-Dispersive IR technologies are subject to "zero" baseline drift when comparing room samplings with a reference gas. PIR eliminates zero drift. With Thermal Gas System PIR instruments, "zero-is-zero."

A proven, ultra-precise microphone enables unattended operation for longer periods of time.

PIR reduces installation and maintenance costs as there is no need for fresh air sampling line or in-line scrubber required by other IR units.

The higher operating efficiency of PIR technology eliminates downtime for frequent auto-zero processing common in other technologies.

The temperature controlled, sealed sample cell in Thermal Gas PIR units eliminates effects of temperature, atmospheric pressure and humidity changes on readings.

Highly selective PIR technology outperforms all others in trace measurement concentrations (1 ppm) with superior signal-to-noise ratio.

The Haloguard monitors are available in several models for monitoring single or multiple gases or one or several locations.

Free Webinar - June 16, 12 pm:

Process Oxygen Analysis: An Overview of Oxygen Sensing Technologies & Applications!

Questions or to register email:

eta@etaassociates.com or call (978) 532 1330.

visit our website at www.etaassociates.com

[etaassociates.com](http://www.etaassociates.com) **ETA Associates**

119 Foster Street, Bldg. # 6

Peabody, MA 01960

Tel: (978) 532-1330

Fax: (978) 532-7325

www.ETAAssociates.com



Draeger PIR 7000 - Performance and Flexibility

The [Draeger PIR 7000](#) is an explosion proof point infrared gas detector for continuous monitoring of flammable gases and vapors. The best performance characteristics alongside the greatest flexibility – the gas library of the infrared-optical transmitter Draeger PIR 7000 can be freely configured and offers exceptional linearity for each library substance across the measuring range.

Based on patented technology, it combines maximum light-efficient optics with a signal-stabilizing 4 beam technology. The double-compensating construction is characterized by the greatest possible robustness towards interferences (e.g. dust and dirt deposits).

The PIR 7000 was developed and produced in accordance with SIL standards EN 61508 and EN 50402 which it meets and exceeds. The standard default configuration of the Draeger PIR 7000 is based on many years of experience but is customizable to meet customer and application needs.

Features:

- Two versions with different measuring wavelengths for different hydrocarbons with different sensitivities
- Double-compensating and non-imaging optics with 4-beam technology
- Customer-specific gas library: methane and propane (as well as ethylene for type 334) included, up to 10 further uploadable substances
- Configurable measuring range in %LEL, %(v/v) and ppm
- Fastest response time of less than 1 second (t0..90)
- Analog 4 to 20 mA and digital HART® output signal
- Multiple configuration capabilities of special signals
- Specified minimum supply voltage of 13 V DC
- Extended specified temperature range from - 40 °C to + 77 °C / - 40 °C to + 170 °F
- Unrestricted usage in humid atmospheres
- Hermetically closed, stainless steel enclosure



Delta F - Leaders in Trace Oxygen Analysis

There are many processes where even the faintest presence of oxygen can have a disastrous effect on product quality or process yield. For example in semiconductor fabs testing of specialty gases and bulk gases can be an insurance policy on improving yield and minimizing scrap. Many hydrocarbon processes including synthetics production of polyesters, petrochem production, cracking of hydrocarbon feedstocks, chemical inerting of gases for storage, and manufacturing of latex can all be improved through accurate oxygen analysis and control. In glovebox applications oxygen analysis is key to reaching research, process and safety goals.

[Delta F](#) has been the technology leader in oxygen analysis for years with their unique non-depleting electrochemical sensor technology.



Summary of Key Features

Model No.	LDL	Speed Resp.	Min. Range	Price Range, \$K
DF-150E	0.05 ppm	<20 sec	10 ppm	3-6
DF-310E	3.0 ppb	<10 sec	50 ppm	6-9
DF-550E	0.2 ppb	<20 sec	10 ppm	21-27
DF-560E	0.07 ppb	<20 sec	20 ppm	25-31

Attend Free Webinar June 16, 12 pm To learn More About this Technology

Process Oxygen Analysis: An Overview of Oxygen Sensing Technologies & Applications!

We will be hosting an online webinar with representatives to explain how the technology works and how to evaluate if it might be the right solution for you.

For more information about this free webinar on June 16, please email eta@etaassociates.com or

ETA Associates

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