



pGas2000 Family  
pAir2000EFF Multi-parameters

# Portable Atmosphere Effluvium Analyzer

## *Special Application Configuration for Environ Gas Analysis*

Ref: pAir2000\_EFF\_IntE

Version:1.0

Revision:2004-06-04

- Based on CPU Intelligence
- Rapid Test
- 100 frame Data log
- LCD 4x16 Display
- RS232/485 Communication
- Full Function Keypad Operation
- Memo Driven Software
- User Configured Analyzer

## About Air Quality Analysis

This instrument was designed to satisfy the popular demand of air quality inspection, specially for field smart measurement. The low detect limit was limited by the sensitivity of sensors that supply at present. The more terrible problem in general analysis is cross interference. It was improved by our special method embedded in this analyzer. Better results is always based on professional assistance, calibration, and maintenance.

While for effluvium detect, it is to detect order gases from the most complicated environment, it was assured to detect all gases listed in the standard, but can not assure the common interferences from each other and response from those uncertain gases that very popular in garbage, junk, litter, muck, offal, rubbish, sweeping, trash, and waste stack. pAir2000EFF-pro is the best configuration for professional analysis. pAir200EFF is the most economic design, but very realistic to common Effluvium detect.

## Application

- Air quality test
- Effluvium odor detect
- Atmosphere test
- Package test
- Relevant gas analysis
- Field smart or Laboratory test

## Functions

- LCD 4×16LCD Display



- RS232/RS485 serial port. Supporting STIMcom / Modbus communication
- Printer Installed
- Data store and read out, or output
- Sample pump included, and suitable sample pre-process assembly
- User calibration

## Specifications

- Electronic unit: BD4CCD, ADC resolution: 0.025%FS
- Electro-Chemical Sensor drift: <+/-10% /Year
- Startup time: <5min
- Response time: < 1min with 90% of change
- Sampling pressure:<1.1 kgf/cm<sup>2</sup>
- Sampling temperature: -10 °C to 50 °C

## Environment Requirements:

Environmental Humidity:

Operating:0 to 95% RH, non-condensing;

Storage:0 to 90% RH, non-condensing;

Environmental Temperature Range:

N:Operating -0 °C to 50 °C;

N:Storage: 0 °C to 50 °C;

Supply: 9V Rechargeable Cell or AC Adapter;

Continuous running time: >24Hr/ each charge;

Standby time: 7 days;

Package: NEMA1/4/4X, IP10/56;

Size: 460x350x250 mm;

## Supported Standard:

- GB / T 18883—2002, <Domestic Air Quality Standard >
- GB 3095—1996, <Ambient Air Quality Standard>.

## Choice List of Parameters for Atmosphere

No.	Gases	Formulae	Range	Tech	Pro	EFF200
1	Ammonia	NH <sub>3</sub>	2-100ppm	EC2610,		√
1		NH <sub>3</sub>	0.5-50/200ppm	EC2610		
1		NH <sub>3</sub>	50ppm-2%	IR4120		
1		NH <sub>3</sub>	0.1-20ppm	LNIR4814-1M	◆	
1		NH <sub>3</sub>	0~500ppm	IR4120		
2	Dimethyl sulfide (DMS)	H <sub>3</sub> C <sub>2</sub> S	0.5-100mg/m <sup>3</sup>	IR4120	◆	
3	Hydrogen sulfide	H <sub>2</sub> S	0.3-100mg/m <sup>3</sup>	EC2610		√
3		H <sub>2</sub> S	3-1000mg/m <sup>3</sup>	LNIR4814-1M	◆	
4	Methyl mercaptan	CH <sub>3</sub> SH	0.5-50mg/Nm <sup>3</sup>	IR4120	◆	√
4			0.5-50mg/Nm <sup>3</sup>	EC		
5			0.5-100mg/m <sup>3</sup>	IR4120	◆	
6	Dimethyl disulfide (DMDS)	H <sub>3</sub> C <sub>2</sub> S <sub>2</sub>	0.5-100mg/m <sup>3</sup>	IR4120	◆	
7	Carbon disulfide	CS <sub>2</sub>	0.5-100mg/m <sup>3</sup>	IR4120	◆	
8	Styrene	C <sub>6</sub> H <sub>5</sub> C <sub>2</sub> H <sub>3</sub>	0.5-100mg/m <sup>3</sup>	IR4120	◆	
9	EVOC	EVOC	0.1-100ppm	EC	◆	√
9	Sniffable	SDR☉	0-500	Calculated		

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dilution ratio

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❶ Not available ❷ Specially ❸ refer to GB/T14675

For ppb level clean air analysis and critical parameter test, please refer to pAir4800 Analyzer

If any special, please fill the above table and attached to your order.

**Package standard:** NEMA 1/4/4X, IP10/56

**Guaranteed:** 2 years

## Ordering Attentions:

- 1) This instrument basically employed electrochemical sensors. The guaranteed life is 1 year. But always you can use it as long as 1-3 more years with normal burden. The time offset of this kind of sensor is about 10% each year in average. So if you do not order standard gas to calibrate on time. Pay attention to the error caused by excursion. And our instruments included auto time correction function that you can turn on or off.
- 2) This instrument is guaranteed to use in normal atmosphere environ air analysis. Application in abnormal air test is not guaranteed. If you are going to measure the air inside of plant, or somewhere might special gases being existed. Please submit the chemical information list to our engineer for evaluation of your order.
- 3) please refer to pGas2000 series with field details information for Industry environ analysis.
- 4) Refer to pGas4800 analyzer of ultimate low limit detect.
- 5) Application system in unsafe area, must order special Anti-explosive Extension
- 6) Non-standard system would be charge extra fee of 30% of budget for additional part
- 7) For configuration of your application system, please select the main parameters first in the table at end of this file. Then pay attention to the Introduction column, there could be possibly some information reminding you to select some sensors to compensate the interference gas that might be existed in your air sample. If you need high reliability in analysis, please choose those parameters as well in your system, unless you assured that those interfering gases would not appear in your applicable air.

**Ordering date:** 2-3 months

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### Products Catalogue:

<http://www.fullsense.com/Marketing/SalesInt/Sales2003IntE.pdf>