Portable Gas Analyzer
pGas2000 Multi-parameters

Portable gas Analyzer

Special Application Configuration for Industrial Gas Integrated Analysis

Ref: pGas2000IntE

- **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**

Application

- Package test
- Relevant gas analysis
- Field smart or Laboratory test

Functions

- LCD 4×16 LCD 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^2
- Sampling temperature: -10 °C to 50 °C

Environment Requirements:

Environal Humidity:
Operating:0 to 100% RH, non-condensing
Storage:0 to 90% RH, non-condensing
Environal Temperature Range:

N:Operating -10 °C to 50 °C
N:Storage -20 °C to 70 °C

BD4 CCD Analyzer	
Environal Temperature	-10 to 60 ℃

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Environal Humidity:	10-90%

Supply: 9V Rechargeable Cell or AC Adapter
Continuous running time: >24Hr/ each charge;
Standby time: 7 days

Series Products

Part No.	Model	Professional Applications	
pGas2000-01	pSmoke2000	Special for Flue Gas Analysis	Hydrocarbons,Organic vapor,Carbon Monoxide, Carbon Dioxide, Nitric oxide, Oxygen, Sulfur Dioxide, Ammonia, Fluorides,Benzene Dissolved, B[a]P, Flue Dust,Suspended Particles Refer to <pSmoke2000> for more details
pGas2000-01	pAuto2000	Special for automotive emissions analysis	Hydrocarbons,Organic vapor,Carbon Monoxide, Carbon Dioxide, Nitric oxide, Oxygen, Flue opacity, Suspended Particles, Engine speed, oil temperature, lambda etc. Refer to <pAuto2000> for more details
pGas2000-02	pAir2000	Application: Special for Environ Air Analysis	Sulfur Dioxide,Hydrogen Sulfide,Carbon Monoxide,Nitrogen dioxide(NO_2),Nitric oxide (NO),Ammonia(NH_3), Organic vapor (VOC),Ozone(O_3),Noise,Floating/Suspended Materials(TSP),Sniffable Particles,(PM_{10}), Fluoride (F-), Fluorine(F_2),Cyanide (CN-), Formaldehyde, B[a]P, Lead (Pb) Refer to <pAir2000> for more details
pGas2000-02	pAir2000R	Indoor air quality analysis	Sulfur Dioxide (SO2):0.025-10/100ppm Nitrogen dioxide(NO_2) (NO_2):0.020-10/100ppm Carbon monoxide(CO):0.1-500/1000ppm Carbon dioxide(CO2): 0-10000ppm Nitric oxide (NOx):0.5-100/300ppm Ammnia(NH_3):0.5-50/200ppm Ozone (O3): 0-1ppm Formaldehyde (CH_2O): 0.05~10ppm; Organics(TVOC): 0.1~1000ppm; Benzene: 0.1-1000ppm; Sniffable Particles (PM_{l0}):0-50mg/m^3
pGas2000-03	pGas2000 TFO	Special for Transformer Fault Gas Analysis	
pGas2000-04	pGas2000- GFR-4s	Special for Grain&fruits Preservation Gas Analysis	CO2: 0-20%; O2: 0-25%; H2O: 0- 99%. VOC: 0-1000ppm
pGas2000-04	pGas2000- GFR-5s	Special for grain&fruits ripe gas analysis	Ethylene:0-1,000ppm; CO2: 0-20%; O2: 0-25%; Ethanol:1-1000 ppm; RH: 0- 99%.
pGas2000-05	pGas2000-SD-4s	Disinfect and sterilization toxic gases	VOC,PH3,SH4,AsH4
pGas2000-05	pGas2000-SD-6s	Disinfect and sterilization toxic gases	VOC,PH3,SH4,AsH4,CO2,SO2
pGas2000-06	pGas2000-MTG	Military toxic gas	

Possible Available Sensors

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GAS	FULL-SCALE RANGES
Acetic Acid	100, 200 ppm
Acetone	100, 200, 500, 1000, 5000 ppm; % LEL
Acetonitrile	100 ppm
Acetylene	50 ppm; % LEL; 3% by Volume
Acrolein (Acrylaldehyde)	50 ppm
Acrylic Acid	100 ppm
Acrylonitrile	50, 60, 80, 100, 200, 500 ppm; % LEL
Allyl Alcohol	% LEL
Allyl Chloride	200 ppm
Ammonia	50, 70, 75, 100, 150, 200, 300, 400, 500, 1000, 2000, 2500, 4000, 5000 ppm; 1%, 2%, 10% by Vol., 10%, 25%, 100% LEL
Anisole	100 ppm
Arsenic Pentafluoride	5 ppm
Arsine	1, 10 ppm
Benzene	50, 75, 100, 1000 ppm; % LEL
Biphenyl	50%, 100% LEL
Boron Trichloride	500 ppm
Boron Trifluoride	500 ppm
Bromine	20 ppm
Butadiene	50, 100, 3000 ppm; % LEL
Butane	400, 1000 ppm; 100%, 200% LEL
Butanol	1000 ppm, 100% LEL
Butene	100% LEL
Butyl Acetate	100 ppm; % LEL
Carbon Disulfide	50, 60, 100 ppm; 5% by Volume
Carbon Monoxide	50, 100, 150, 200, 250, 300, 500, 1000, 3000, 5000 ppm; 3%, 5% by Volume, % LEL
Carbon Tetrachloride	50, 100, 10000 ppm
Cellosolve Acetate	100 ppm
Chlorine	10, 20, 50, 100, 200 ppm
Chlorine Dioxide	10, 20 ppm
Chlorobutadiene	100% LEL
Chloroethanol	200 ppm
Chloroform	50, 100, 200 ppm
Chlorotrifluoroethylene	100% LEL
Cumene	100% LEL
Cyanogen Chloride	20 ppm
Cyclohexane	100 ppm, 100% LEL
Cyclopentane	50 ppm
Deuterium	50%, 100% LEL
Diborane	10, 50 ppm
Dibromoethane	50 ppm
Dibutylamine	100% LEL
Dichlorobutene	1% by Volume
Dichloroethane (EDC)	50, 100 ppm, % LEL
Dichlorofluoroethane	100, 1000 ppm
Dichloropentadiene	50 ppm
Dichlorosilane	50, 100 ppm
Diesel Fuel	50 ppm; 100% LEL
Diethyl Benzene	100% LEL
Diethyl Sulfide	10 ppm
Difluorochloroethane	100% LEL
Difluoroethane (152A)	100% LEL
Dimethyl Ether	100% LEL
Dimethylamine (DMA)	30, 50 ppm
Epichlorohydrin	50, 100, 500, 1000 ppm
Ethane	1000 ppm
Ethanol	200, 1000, 2000 ppm; % LEL
Ethyl Acetate	200, 1000 ppm; % LEL
Ethyl Benzene	200 ppm; % LEL
Ethyl Chloride	100 ppm; % LEL
Ethyl Chlorocarbonate	1% by Volume
Ethyl Ether	100, 800, 1000 ppm; % LEL
Ethylene	100, 1000, 1200 ppm; % LEL
Ethylene Oxide	5, 10, 20, 30, 50, 75, 100, 150, 200, 300, 1000, 1500, 2000, 3000 ppm; % LEL

Fluorine	20, 100 ppm
Formaldehyde	15, 50, 100, 500, 1000 ppm
Freon-11	1000, 2000, 5000 ppm
Freon-12	1000, 2000, 3000 ppm
Freon-22	100, 200, 500, 1000, 2000 ppm
Freon-113	100, 200, 500, 1000, 2000 ppm; 1% by Vol.
Freon-114	1000, 2000, 20000 ppm
Freon-123	1000 ppm
Fuel Oil or Kerosene	100% LEL
Gasoline	100, 1000, 2000, 20000 ppm; % LEL
Germane	10, 50 ppm
Heptane	1000 ppm, % LEL
Hexane	50, 100, 200, 2000, 2500, 3000 ppm, % LEL
Hexene	% LEL
Hydrazine	5, 10, 20, 100, 1000 ppm, 1% by Volume
Dimethyl Hydrazine	5, 10, 20, 100, 1000 ppm, 1% by Volume
Hydrogen	50, 100, 200, 500, 1000, 2000, 5000 ppm; 3%, 5% by Vol., 2% to 100% LEL
Hydrogen Bromide	50 ppm
Hydrogen Chloride	50, 100, 200, 400, 500, 1000 ppm
Hydrogen Cyanide	20, 30, 50, 100, 200, 1000, 10000 ppm
Hydrogen Fluoride	20, 50, 100, 200 ppm
Hydrogen Sulfide	5, 10, 20, 30, 50, 100, 300, 1000 ppm; % LEL
Isobutane	1000, 3000 ppm, % LEL
Isobutylene	% LEL
Isopentane	1000 ppm
Isoprene	% LEL
Isopropanol	200, 400, 500, 1000 ppm; % LEL
Mercaptan (TBM)	0-50 mg/M3(0-14ppm)
Methane	100, 200, 1000, 1500, 2000, 5000 ppm; 1%, 2% by Volume, 100%, 200% LEL
Methanol	200, 300, 400, 500, 1000, 2000, 5000 ppm; 15%, 30%, 100% LEL
Methyl Acetate	30 ppm
Methyl Acrylate	60 ppm
Methyl Bromide	20, 50, 60, 100, 500, 1000, 10000; 40,000 ppm
Methyl Butanol	% LEL
Methyl Cellosolve	% LEL
Methyl Chloride	100, 200, 300, 2000, 10000 ppm; % LEL
Methyl Ethyl Ketone	100, 500, 1000, 4000 ppm; 100% LEL
Methyl Hydrazine	5 ppm
Methyl Isobutyl Ketone	200, 500, 2000 ppm; 50%, 100% LEL
Methyl Mercaptan	30 ppm
Methyl Methacrylate	100 ppm; % LEL
Methyl-Tert Butyl Ether	100% LEL
Methylene Chloride	20, 100, 200, 300, 400, 500, 600, 1000, 2000, 3000, 5000 ppm; % LEL
Mineral Spirits	200, 3000 ppm; % LEL
Monochlorobenzene	100% LEL
Monoethylamine	30, 100, 1000 ppm
Morpholine	500 ppm
Naptha	1000 ppm, 100% LEL
Natural Gas	1000, 2000 ppm; 2%, 4% by Volume, % LEL
Nitric Oxide	20, 50 ppm
Nitrogen Dioxide	20, 50, 100 ppm
Nitrogen Trifluoride	50, 500, 1000 ppm
Nonane	2000 ppm
Pentane	200, 1000 ppm, % LEL
Perchloroethylene	200, 1000, 2000, 20000 ppm
Phenol	100 ppm
Phosgene	50 ppm
Phosphine	3, 5, 10, 20, 30, 50 ppm
Phosphorus Oxychloride	200 ppm
Picoline	% LEL
Propane	100, 1000 ppm; 100% LEL
Propylene	100, 200, 1000, 5000 ppm; %LEL
Propylene Oxide	100 ppm,; % LEL
Silane	10, 20, 50 ppm
Silicon Tetrachloride	1000 ppm

Silicon Tetrafluoride	1000 ppm
Styrene	200, 300 ppm; % LEL
Sulfur Dioxide	50, 100 ppm
Tetrahydrofuran	200, 300, 1000 ppm; % LEL
Tetrahydrothiophene (THT)	0-50mg/M3
Tetraline	100 ppm
Toluene	50, 100, 200, 500, 2000, 5000 ppm; % LEL
Toluene Diisocyanate	15 ppm
Trichloroethane	50, 100, 500, 1000 ppm; 1% by Volume
Trichloroethylene	50, 100, 200, 300, 500, 1000, 2000 ppm; %LEL
Triethylamine (TEA)	100 ppm
Trifluoroethanol	25, 100 ppm
Trimethylamine (TMA)	50 ppm
Tungsten Hexafluoride	50 ppm
Turpentine	% LEL
Vinyl Acetate	1000 ppm; % LEL
Vinyl Chloride	20, 50, 100, 200, 400, 500, 1000, 4000, 10000 ppm; 10%, 100% LEL
Vinylidene Chloride	50 ppm
Xylene	100, 200, 300, 1000 ppm, 1% by Volume