
Model 900 Transmitters
Model 202 IR
Model 1000 Toxic Gases
Model 301C 19" Rackmount PID
DataWorks™ Software
Model 201B Wallmount PID
Model 610 Water Quality Analyzer
Model 210 19" Rackmount O₂
Model 204 TCD

CONTINUOUS ANALYZER PRODUCT LINE
Model 201-B- Analyzers for Total VOCs (total HC) in Air or Water

**PID or FID** with 5 digit Smart Meter

**Features:** No H2 or air required for PID; Fast response-PID- 10 sec. to 90% - Rack (19") or wall mount enclosures available; Autocal, RS232; Alarms for PID or FID out...; Range 0.1 to 3000 ppm (higher ranges available with dilution system- for PID; 1-20,000 ppm for FID; Class 1 Div. 1 or 2 (X or Z) purging available for hazardous areas; Options: Datalogger & alarms; 4-20 mA, 2 or 4, 8, 12, 16, 24 or 32 pt. Multipoint

**Applications:** Carbon bed breakthrough, Total hydrocarbons in air, Area monitoring for total hydrocarbons, or Selected inorganic cpds via PID; Stack and incinerator monitoring - sampling systems available; Total VOCs in water with optional Model 650 sparging system

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Model 210 - Paramagnetic Oxygen Analyzer

**Paramagnetic O2** with temperature and pressure compensation & 5 digit Smart Meter

**Features:** Temperature & pressure compensation for additional stability; fast response-PID- 10 sec. to 90% - Rack (19") or wall mount enclosures available; Autocal, RS232; Alarms, Range- ppm 100%; Class 1 Div. 1 or 2 (X or Z) purging available for hazardous areas; Options: Datalogger & Alarms; 4-20 mA, 2 or 4, 8, 12, 16, 24 or 32 pt. Multipoint

**Applications:** Air liquification plants, Gas purity analysis, Hydrocarbon stream monitoring, Fermentation processes, Heat treating & annealing, Protective blanketing, Combustion efficiency, Stack Gas monitoring, Blast furnace ga, Natural gas

Stack and incinerator monitoring- sampling systems available

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Model 301C & 501C - Process Gas Chromatographs

The 301C is a low cost Process GC with an embedded Pentium PC and Windows operating system, PeakWorks chromatography software, touch screen, Color VGA Display

**Enclosures:-** 301C: 19" Rack (33 Lbs) or NEMA 4 wall (55 Lbs) mount enclosure, Class 1 Div. (1 or 2) for hazardous area

The Model 501C is a Process GC with an embedded Pentium PC and Windows XP operating system, PeakWorks chromatography software, multiple diagnostics, PeakWorks communication software, network card, touch screen, Color VGA Display

**Enclosure-** 501C: NEMA 4 wall (85 Lbs) mount 2 enclosures-electronics & oven, Class 1 Div. (1 or 2) for hazardous area

**Detectors:** Specific (ECD, FPD), Selective (FID, PID) and Universal detectors (FUV, TCD & HID) available

Gas or liquid (heated) valves available, Multipoint (1, 4, 8, 12 pt.), 1 alarm per channel, 2nd level optional

**Applications:** Ambient air, fenceline monitoring, process, stack emissions from ppb to% levels, measurement of non-methane HC, natural gas analysis, chlorinated HC, sulfur compounds, aromatic
Model 202 IR+
- This dual beam (reference and measurement wavelength) IR instrument is very stable and has a fast response (15 sec. to 90%). It is ideal for process control, stack measurements or even ambient levels of CO₂, N₂O or freons.
- Measure Lower explosive limit (LEL) for hydrocarbons in drying processes; measure methane (CH₄) in landfill gas, mines and other sources.
- Applications: Monitor ambient CO₂ in buildings, greenhouses, stacks, landfill gases, CO in parking lots, CO₂ in stacks, Freons leaks from refrigeration.
- Typical Range (CH₄/CO₂/Freons) high ppm to 100%.
- Species Measured: CH₄, CO₂, CO, N₂O, Refrigeration Gases (Freons) Z purging available.

Model 112 PID +
- Compact wall mount PID or FID based sensor in a NEMA 4 enclosure with 5 digit bright LCD, and an optional RS485 output. Can add 1-3 additional sensors such as LEL and 2 electrochemical or 3 electrochemical sensors. For safety monitoring. Z purging available.
- Monitoring total VOCs and toxic gases.

Model 204 TCD
- This technique determines the difference in thermal conductivity between a reference and a sample stream using a Wheatstone bridge circuit.
- NEMA 4 enclosure with 5 digit bright LCD, and a 4-20 mA output.
- Applications: It is most useful for binary mixtures where the gases have a difference in thermal conductivity or for leak detection because of its universal response.
- Range 100 ppm to 100% for Hydrogen, Helium, CO₂, Neon ... Z purging available.

Model 1000 Toxic Gases, O₂, LEL, TCD
- Measure CO, SO₂, H₂S, Cl₂, HCl, H₂, NO, NO₂, O₂, HCN, CO₂, NH₃, PH₃, Phosgene, HF, F₂, SiH₄ via electrochemistry for worker safety at ppm levels. Single component only; Model 1004 for 2-4 Components including LEL + 3 electrochemical sensors. Note no PID.
- NEMA 4 enclosure with 5 digit bright LCD digit meter & optional RS485 output. Calibration stored in software. No pots to set, built in pump provides a fast response; dual setpoint, alarms, RS232 for multiple sensors.

Model 900 Transmitters
- IR, TC, PID or various Electrochemical sensors in an explosion proof enclosure with a glass window. Output is 4-20 mA. Measure CH₄, CO₂ by IR, H₂ by TCD, VOCs by PID, and toxics by electrochemistry. These units are powered by 18-30 VDC. OEM versions available for many of these analyzers. Please consult the factory.
Model 1000 Series for pH, ORP, T, dissolved O₂ in water
- A variety of systems are available from 1/8 to 1/2 DIN panel mounts
- Measure and/or control pH, ORP, conductivity, T, dissolved O₂
- 4-20 mA output, dataloggers available
- Industrial pH, conductivity, ion selective, & dissolved O₂ electrodes available
- Easy to maintain- designed to reduce maintenance by plant personnel
- Range pH- 0.0 to 14.00;
- Clean Water Act compliance
- pH, ORP, T, conductivity, dissolved O₂ transmitters or Controllers
- Effluent monitoring
- Municipal water treatment
- Analysis of water for process input
- Monitoring cooling water

610 Water Quality Analyzer
The Model 610 is a reliable, flexible and versatile analyzer based on ion selective electrodes such as: NH₃, Cl⁻, S²⁻, F⁻, CN⁻, CO₃²⁻, SO₃²⁻...The ion selective electrodes are potentiometric (reversible) devices that respond to a change increase as the ion is increased/decreased. The concentration is calculated via Nernst Equation: \( E = E_0 + \frac{RT}{nF} \log \text{[concentration]} \) where \( E \) is the potential, \( E_0 \) is a mixture of several potentials in the system, \( R \) is the gas constant, \( T \) is the absolute temperature 0K, and \( F \) is the faraday constant. This product is available in a NEMA 4 wall mount configuration only.

DATAWORKS DATA COLLECTION SOFTWARE
Data Works is PID's data collection and logging software that can be used with a wide variety of sensor or analyzer outputs such as ethernet, RS485 & 4-20 mA. The latter two outputs are for long distance transmission of data. In-plant installations are typically 4-20 mA or RS485 because of the long distances involved 1,000-5,000 feet.