

# Paramount 9000

## GC-FID



A flame ionization detector (FID) detects hydrocarbon by ionizing the compound with a hydrogen flame and collecting the resulting electrons. The number of electrons generated is directly proportional to the number of carbons in the hydrocarbon compound. **Paramount 9000 GC-FID (P9000F)** integrates our GC with a high sensitivity FID. This unique FID is equipped with a special flame tip and provides sub ppb detection of CH<sub>4</sub>, CO<sub>2</sub> and NMHC in UHP process gases.

### Unique Features:

#### User Interface

- Large industrial grade 7" color display
- Intuitive touchscreen operation with virtual keyboard
- 7 days internal data storage
- Instant historical data play back on touch screen
- Powerful *P9KChrom* software for advanced control and data analysis
- RS232 serial communication
- Up to 6 analog signal outputs



#### Control Electronics and Firmware

- On board DSP with proprietary S/N improving algorithm
- S/N improvement with DC power management and noise isolation
- On demand historical data review on touch screen
- Data review does not interfere with continuous sample run
- Sample stream switching for different sample gas types



## Specifications:

LDL (ppb)

| Impurity        | Sample Gas              |                |                |      |
|-----------------|-------------------------|----------------|----------------|------|
|                 | N <sub>2</sub> , Ar, He | O <sub>2</sub> | H <sub>2</sub> | Air  |
| CH <sub>4</sub> | <0.2                    | <0.2           | <0.2           | <0.2 |
| CO <sub>2</sub> | <0.2                    | <0.2           | <0.2           | N/A  |
| NMHC            | <0.3                    | <0.3           | <0.3           | <0.3 |

**Accuracy:** ± LDL or ± 10% of reading, whichever is higher

**Range:** 0 – 10 ppm

- Carrier gas: Purified 5N nitrogen
- FID hydrogen and air: Hydrocarbon free
- Sample gas flow rate: 25 – 60 mL/min
- Analyzer dimensions: 27" L x 17" W x 7" H
- Analyzer weight: 28 lbs

## Model Table:

| Model  | Sample Gas     |                      |                |    |    | Voltage |        |
|--------|----------------|----------------------|----------------|----|----|---------|--------|
|        | N <sub>2</sub> | O <sub>2</sub> / Air | H <sub>2</sub> | Ar | He | 110Vac  | 220Vac |
| P9000F | -N             | -O                   | -H             | -A | -E | -1      | -2     |

Order Example for N<sub>2</sub> 110 Vac: **P9000F-N-1**

## Options:

- Single point internal dilution system
- Internal sample stream switching system (two streams)

