

PlasmaDetek

GC Detectors



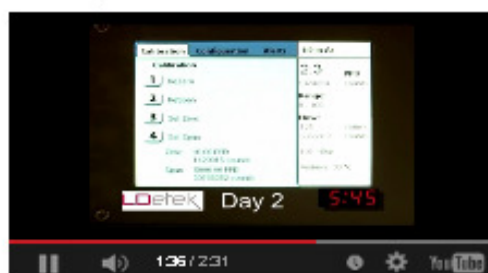
Download the complete specification and technical data sheet (2.47 mb)



LD8000 PLUS

ONLINE PPB TRACE NITROGEN IN ARGON/HELIUM ANALYZER

The LD8000-Plus is designed for ultra-pure Argon or Helium gas analysis. With its integrated ppb sub-system, unique performance can be achieved. Low ppb trace nitrogen online is now possible without the need of a gas chromatograph. This compact design makes it very attractive for any industrial or laboratory installation.



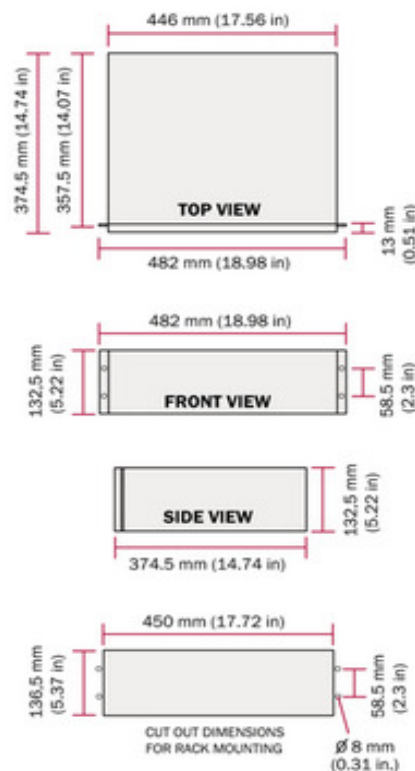
THE LD8000 PLUS SPECIFICATION

| | |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DETECTOR TYPE | • Plasma Emission Detector design based on a Duty Cycle Controlled System. Sub ppb system integrated. |
| RANGE | • 0 – 100 : resolution 0.1 ppb • 0 – 500 : resolution 1 ppb • 0 – 5000 : resolution to 1 ppb • other range possible |
| REPEATABILITY | • < 0.2% of range used |
| ACCURACY | • Better than ± 0.5% of range used |
| STANDARD FEATURES | • Manual or autorange (user selectable) • Microprocess or controlled • 5.6" TFT intelligent LCD module with Touch Screen • Self diagnosis system with auto-resolve alarm • 4-20 mA isolated output • Alarm Historic • Safe calibration procedure to avoid any bad calibration • Digital outputs for remote monitoring: (all dry relay contacts) • System status (1 output) • Range in use (3 output) • Calibration in use (1 output) |
| OPTIONS | • Serial port: RS-232 / 422 / 485 / Profibus • 2 alarm outputs (user programmable set point) |
| GAS CONNECTIONS | • Sample: 1/8" face seal fittings • Vent: 1/8" compression fitting |
| CALIBRATION GAS | • Zero: LDP1000 purified gas (Getter) • Span: 3 to 4 ppm N ₂ /Ar |
| SAMPLE FLOW REQUIREMENTS | • 15 to 200 sccm |
| RECOMMENDED MAXIMUM OPERATING PRESSURE | • 20 PSIG (689 kPaG) |
| RECOMMENDED MINIMUM OPERATING PRESSURE | • 10 PSIG (28 kPaG) |
| OPERATING TEMPERATURE | • 10°C to 45°C (must be stable) |
| SUPPLY | • 115 VAC, 50 – 60 Hz or 220 VAC, 50 – 60 Hz |
| POWER CONSUMPTION | • Maximum 70 watts |
| DRIFT | • < ± 0.5% of range |
| WEIGHT | • 37 lbs (17 kg) |

THE LD8000 PLUS FEATURES

- Unique Plasma Emission Detector design based on a Duty Cycle Controlled System
- PPB sub-system Integrated
- Bootloader Integrated for software update via Ethernet
- Large scale measurement
- 4-20 mA output as standard
- Range Identification Relay
- Maintenance free
- Bypass sample flow control to insure high purity
- Low sample consumption
- 3U cabinet

THE LD8000 PLUS DIMENSIONS



THE LD8000 PLUS ORDERING INFORMATIONS

| | | |
|------|----------------------|-----------------------------------------------|
| -xxx | Operating Voltage | 120 : 120 volts 220 : 220 volts |
| -X | A: Alarm option | |
| -XXX | Serial communication | RS 2: RS-232 RS 4: RS-485 PFB: Profibus |