



Leman Instruments

PID STATION ULTRA LC: ULTRA HIGH PURITY NITROGEN & ULTRA ZERO AIR



N₂ + AIR

APPLICATIONS

- ✓ Make up gas, GC-FID
- ✓ Carrier gas for GC

DESCRIPTION

LEMAN-INSTRUMENTS designed the **PID STATION ULTRA LC** product line of **Ultra High Purity Nitrogen & Ultra Zero Air generators with compressor** to supply independently N₂ & AIR for GC-FID, carrier gas for GC, close to the consumer in an elegant casing with full color display and touchscreen.

The PID Station is composed of a Ultra High Purity Nitrogen Generator, a Ultra Zero Air generator and an oil free piston AIR compressor.

Compressed Air is first partially dried and then passes throughout an hot catalytic chamber to remove HC, CO and CH₄.

Each gas, N₂ and AIR, is dried and purified or extracted by the Pressure Swing Adsorption (PSA) technology. N₂ & AIR output pressures are regulated from 0.5 to 5 bar.

Gases are available 24/7 with constant purity.

Each instrument is equipped with high performance communication interfaces USB, RS485 & Ethernet as standard, (WLAN as options) to create a very flexible gas network with local or central control.

Due to the software being focused on safety, automatic regulation and reliable communications, the **PID STATION ULTRA LC** is easy to install, reliable, safe and pleasant to operate.

BENEFITS

- ✓ Reduces in operation costs. Return on investment within 15 months.
- ✓ Improves resolution and detection limit versus Helium only usage. Provides High pressure stability.
- ✓ N₂ and Zero Air available 24/7 at constant purity. No contamination.
- ✓ Independent source of Nitrogen and Zero Air that does not require any piping and can be easily moved around the laboratory. Remote control from PC, I-phone and tablet
- ✓ Low noise compressor
- ✓ Very safe operation, internal leak-test, automatic shut-down, over-pressure valve, current and voltage limits.
- ✓ No handling and storage of cumbersome gas cylinders. No cylinder rental fee.
- ✓ Long life compressor with power economy function.

PID STATION ULTRA LC

SPECIFICATIONS

Models	PIDSTATION ULTRA LC-250/2000 (Other Configuration available on request)
Outflow capacities @ 1013/20°C	PIDSTATION ULTRA LC-250/2000 : 160 Nml/ min N2 & 1500 Nml/min AIR
N2 purity	> 99.9999% ; < -75°C dew point, < 1 ppm H2O, particulates <0.1µm; <0.05ppm HC-CH4
AIR purity	< 10ppm H2O (<-60°C DP); < 50 ppb HC ; < 50 ppb CO and CH4; Particulates <0.1µm
Outlet Pressures	N2: from 0.5 to 5 bar (7 to 70 psig), adjustable by software. AIR: from 0.5 to 5 bar (7 to 70 psig), adjustable by software.
Compressed Air	Supplied by internal oil free piston compressor
Sound pressure	< 55 dB(A), measured at 1m
Manual control	Through a 4.3" TFT-LCD color display with touch screen, located on the front panel. Display of major parameters, functioning status and alarms. Intuitive navigation to functions by menus and sub menus.
Remote control, Communications	<ul style="list-style-type: none">■ USB. RS485 (Mod-Bus) or Display■ Trough Ethernet 10/100 network■ Trough WLAN network, with PC, I-Phone, tablet (option)■ Log book download by USB.
Outlet fittings	Stainless steel 1/8" OD compression
Power supply	110VAC to 130 VAC 50 to 60 Hz; 220 to 260VAC, 47 to 63 Hz
Power consumption (max at full flow)	PIDSTATION ULTRA LC-250/2000 : maximum 650W
Dimensions	W=230mm, H=600mm, D=550mm with castors
Net weight	PIDSTATION ULTRA LC-250/2000 : 40 Kg
Certification	CE

ORDERING NUMBERS

Model	Article #
PIDSTATION ULTRA LC-250/2000	747301

Model	Article #

LEMAN - INSTRUMENTS SAS

Archamps Technopole, 60 Avenue Marie-Curie
F – 74160 ARCHAMPS

info@leman-instruments.com

Telephone: +33 4 50 39 49 22

www.leman-instruments.com