



Leman Instruments

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



N₂ + AIR

APPLICATIONS

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

DESCRIPTION

LEMAN-INSTRUMENTS designed the **PID STATION ULTRA RC** product line of **High Purity Nitrogen & 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 High Purity Nitrogen Generator, a 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 RC** 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 RC

SPECIFICATIONS

| | |
|---------------------------------------|--|
| Models | PIDSTATION ULTRA RC-160/1500 (Other Configuration available on request) |
| Outflow capacities @ 1013/20°C | PIDSTATION ULTRA RC-160/1500 : 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 RC-160/1500 : maximum 650W |
| Dimensions | W=483mm/19ins, H=265mm/10.5ins (2x3U), D=520mm/21ins |
| Net weight | PIDSTATION ULTRA RC-160/1500 : 38Kg |
| Certification | CE |

ORDERING NUMBERS

| Model | Article # |
|-------------------------|-----------|
| PIDSTATION50RC-160/1500 | 727301 |

| Model | Article # |
|-------|-----------|
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