

# SynX PID Station

ULTRA HIGH PURITY NITROGEN GENERATOR,

# SYNSPEC

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# N<sub>2</sub>

## APPLICATIONS

- ✓ Carrier gas for gas chromatographs
- ✓ Makeup gas for calibrators

## Description

Synspec produces the **SynX PID Station** a high purity nitrogen generator. This generator is useful for any type of application which needs independent supply of pure nitrogen gas of max 100 ml/min close to the analyzer. This generator comes in an elegant 19" casing with full color touchscreen.

Compressed air is first filtered from particulates and humidity. Based on the field proven Pressure Swing Adsorption (PSA) technology, nitrogen is extracted from a set of filters.

After this extracting process, N<sub>2</sub> passes a hot catalyst chamber to remove the last traces of organic compounds.

It is then stored in a buffer vessel to stabilize output pressure. Finally output pressure is regulated electronically to a set value, between 0.5 and 5 bar ( 7 to 72 psi ) .

As an option, ethernet communication is possible to create a flexible gas network with local or central control.

Because the software focuses on safety, automatic control and reliable communication, the **SynX PID Station** is easy to install, reliable, safe and pleasant to use.

## Benefits

- ✓ Reduces in operation costs. Return on investment within 15 months.
- ✓ Improves resolution and detection limit. Improves baseline stability.
- ✓ Nitrogen available 24/7 at constant purity. No contamination.
- ✓ Independent source of N<sub>2</sub>. Does not require any piping. Can be easily moved around the laboratory.
- ✓ Low noise compressor.
- ✓ Long life compressor with power economy function.
- ✓ No handling, storage of gas cylinders. No cylinder rental fee.

# Specifications

<b>MODELS</b>	SynX PID Station with catalyst to remove HC	
<b>OUTFLOW @ 1013/20°C</b>	100 ml/min	
<b>OUTPUT N<sub>2</sub> PURITY</b>	✓ > 99.999% N <sub>2</sub> ✓ < -60°C dew point ✓ < 10 ppm O <sub>2</sub> ✓ particulates <0.1 µm ✓ < 0.05 ppm HC-CH <sub>4</sub>	
<b>OUTPUT N<sub>2</sub> PRESSURE</b>	From 0.5 to 5 bar (7 to 72psi) adjustable by software.	
<b>COMPRESSED AIR</b>	Supplied by internal oil free compressor	
<b>MANUAL CONTROL</b>	A 7" touchscreen displays major parameters like functioning status and alarms. Intuitive navigation to functions by menus and sub menus.	
<b>REMOTE CONTROL</b>	✓ RS485 and Ethernet 10/100 network (option)	
<b>SOUND PRESSURE</b>	< 59 dB (A), measured at 1m	
<b>AMBIENT TEMPERATURE</b>	+10°C to +35°C	
<b>OUTPUT FITTING</b>	Stainless steel 1/8" Swagelok	
<b>POWER SUPPLY</b>	From 90 VAC to 260 VAC, 47 to 63 Hz	
<b>POWER CONSUMPTION</b>	Maximum 750 W	
<b>DIMENSIONS</b>	W = 485 mm / 19 inch, H = 135 mm / 5.3 inch (3 U), D = 535 mm / 21,1 inch	
<b>WEIGHT (NET)</b>	15 kg (33 lb)	Vs 2.4.1

# Ordering Numbers

Model	Article #
SynX PID Station	8801

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