

702H


Model 702H Converter Efficiency Tester

The Model 702H is a microprocessor-controlled system for Nitrogen Dioxide (NO₂) production. The system is designed for automated conversion efficiency testing of NO_x analyzers for continuous emissions monitoring. The 702H eliminates the need to use NO₂ cylinders. This is advantageous since NO₂ calibration gases may have limited shelf lives and this can affect the ability to pass the conversion efficiency requirement.

The source input requirements for the 702H are Nitrogen Oxide (NO) and dry ambient air. It is equipped with a stable, adjustable Ozone (O₃) generator for production of NO₂ using GPT (Gas Phase Titration). The principle of GPT is based on the rapid gas-phase reaction between NO and O₃ in the included, internal GPT chamber to produce stoichiometric quantities of NO₂.

The instrument includes two NO cylinder input ports so that converter efficiency can be checked at two different concentrations.

- » Two channels for NO gas
- » GPT for converter efficiency checks up to 80 ppm (NO₂)
- » Rapid payback by eliminating NO₂ cylinders
- » Digital electronics for ease of use, reliability and performance
- » Ethernet, RS-232
- » Rack mountable
- » Two-year warranty

Specifications

System

Repeatability of Flow Control:	± 1% of full scale
Flow Stability:	1% / 7 days
Flow Range of NO Gas:	2 to 5 LPM
NO Gas Input Pressure:	5-50 psig
NO Gas Input Ports:	2
Dry Air Input Port:	1

Ozone Generator Module

Ozone Pre-set Points:	2
Maximum Output:	400 ppm LPM
Minimum Output:	4 ppm LPM

Electrical Specifications

Power Requirements:	100-240V~ 47-63Hz 2.0A
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Communication Specifications

Included I/O:	1 x Ethernet: 10/100Base-T 1 x RS-232 (300-115,200 baud) 10 x digital control inputs 12 x digital status outputs
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Physical Specifications

Operating Temperature Range:	5 to 40°C
Dimensions (HxWxD):	5.25" x 19" x 14.25" (133 x 483 x 362mm)
Weight:	20 lbs (9.1 kg)

How to Order

Model 702H includes:

- ☐ Two-year warranty
- ☐ 2 NO gas inlet ports
- ☐ 1 ambient air inlet port with pump
- ☐ 1 dry air canister for ambient air
- ☐ 10 digital control inputs
- ☐ 12 digital status outputs
- ☐ RS-232 port
- ☐ Ethernet port
- ☐ Select AC input voltage
 - ☐ 100V - 120V ☐ 50Hz
 - ☐ 220V - 240V ☐ 60Hz

Mounting Options:

- ☐ Rack mount brackets for chassis slides
- ☐ Rack mount brackets only
- ☐ Handle

All error specifications are based on constant conditions.

Specifications subject to change without notice.

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