

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 NOX analysers 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 gasphase 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.

FEATURES

- 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: \pm 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

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

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)

All error specifications are based on constant conditions.

Specifications subject to change without notice.

Printed documents are uncontrolled. SAL000087A (DCN 7053) 702H/02.13.15

HOW TO ORDER

- 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

MOUNT OPTIONS

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

