
LHG 2000

The Model LHG 2000 Relative Humidity Calibrator is a low-cost, high-precision alternative to relative humidity calibrations using refrigerated mirrors or 2-pressure systems, and is faster than procedures using saturated salts. The system incorporates advanced electronics and innovative approaches that result in an overall improvement in performance and reliability.



APPLICATIONS

Calibration Laboratories
Testing Labs
Universities / R&D
Pharmaceutical/ Biotech Industry
Food Industry

HIGHLIGHTS

Portable and durable
Suitable for regular transport
Economical High precision and performance
Relative humidity accuracy +/- 1.0%RH at 23°C
Temperature accuracy +/- 0.1°C

General Information

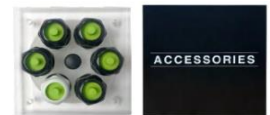
Portable and durable, suitable for regular transport
Economical High precision and performance
Relative Humidity range 5 to 95%RH
Relative Humidity accuracy $\pm 1.0\%$ RH at 23°C
Temperature range from 5°C to 55°C
Temperature accuracy: $\pm 0.1^\circ\text{C}$

Technical Data

Operating Temperature Range(°C)	-5°C to 55°C
Relative Humidity Range:	5 to 95%RH
Relative Humidity accuracy	1.0%RH at 23°C
Stability Humidity	0.15%RH @ 18°C to 28°C
Uniformity Humidity	0.30%RH @ 18°C to 28°C or better / typically $\pm 0.25\%$
Temperature range	from 5°C to 55°C
Temperature accuracy	0.1°C
Stability temperature	0.05°C
Uniformity Temperature	0.10°C or better / typically $\pm 0.05^\circ\text{C}$
Warm-Up Time	Ambient Condition: 30 Minutes Maximum/ Cold: 30 Minutes
Housing and assembly	Portable
Resolution Display / USB	Temperature 0.01°C Humidity 0.01%RH Dew Point 0.01°C (Calculated)
Calibration System Accuracy	Temperature $\pm 0.10^\circ\text{C}$ or better / typically $\pm 0.05^\circ\text{C}$ Humidity $\pm 1.00\%$ RH or better/ tuned systems can be as good as $\pm 0.60\%$ RH Controller Type; PID Controller

Mechanical

Generator Dimensions	Width 55.33 cm Depth 40.65 cm Height 24.65 cm
Chamber Dimensions	Diameter 14.50cm Depth 20cm
Working Dimensions	Diameter 12.50cm Depth 10,90 cm
Volume	1.5 Liter Effective Working Volume
Weight	15.5 KG
Power Supply	12 Volt DC @ 1A
Standard Port	6 Ports. Optional: 4 Ports, 2 Ports, 4 Ports chilled mirror
Chilled Mirror port	In and Out
Probe Analog outputs Available	0 - 1 Volt



Standard delivery:

Humidity Generator, Square 6 Port Door
Desiccant Canister, Fill Syringe 20ml
Accessories kit, 7 Grommets, Mains power cord
Software, calibration documents and instruction manual

Consumables

Water reservoir 200 ml . Only Distilled Water
Desiccant type Molecular Sieve
Recalibration Frequency Once Per Year Recommended

Optional

Pelican transport case
ISO17025 Accredited calibration
Standard expansion chamber 22 x 28,6 x 34,5 cm
Other Doors & Grommets