PN:HG6000B1708001C

ZOGLAB

HG6000

Humidity Generator 6000 Series

- Humidity control range 10 ~ 95%RH
- Humidity stability ≤ ±0.2%RH
- Temperature control range 5 ~ 50℃
- Temperature stability 0.1℃(23℃), 0.2℃(Full Scale)
- Full scale stability less than 10 mins
- Support to calibrate 5 sensors at the same time

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HG6000

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Humidity Generator 6000 Series

HG6000 is a high-performance mixed flow humidity generator. Based on the semiconductor thermostat technology, it could generate various humidity environment within the set temperature range. Built-in dual pump and stirring fan can quickly respond to the set humidity value. HG6000 could finish the calibration within a short time since its stability time less than 10 mins.

- Humidity control range 5~95%RH
- Humidity stability ≤ ±0.2%RH
- Temperature control range 5~50℃
- Temperature stability 0.1℃(23℃), 0.2℃(Full Scale)
- Full scale stability less than 10 mins
- 9 inch TFT color touch screen for better reading experience
- Support to calibrate 5 sensors at the same time
- Support programming control for fully auto calibration
- Support RS232/RS485/USB/LAN/Wi-Fi communication

HG6000 • Host Machine

User interface
9 inch color touchscreen for optimized human-machine interactive interface

Front USB interface
External USB flash disk for data export and import

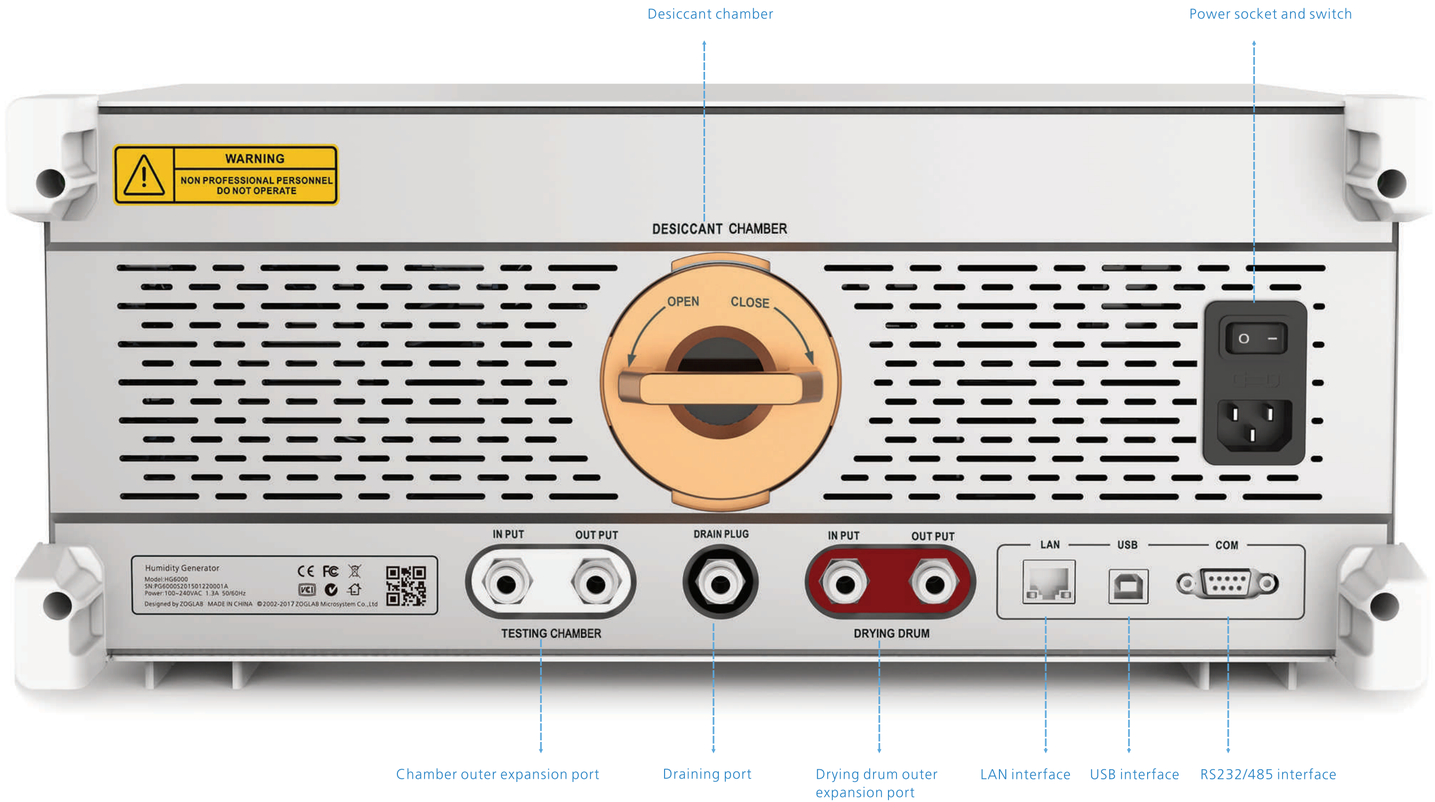
Calibration chamber
Calibrate the temperature and humidity measuring equipment

Power key
Power on or off

Level gauge

Water input hole

HG6000 • Host Machine

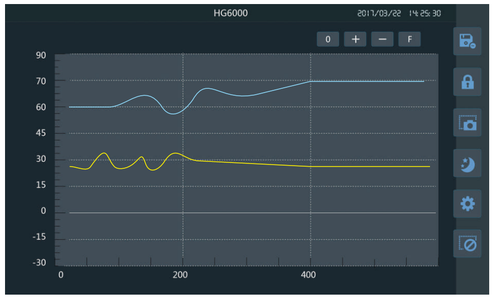


Superior UI Design

UI for HG6000 is simple and easy, and quick query for basic function, such as temperature and humidity setting, programming, etc. by pressing the key. You could check the data change via the graph. Right side of UI has the shortcut keys, such as storage management, reading hold, screen shot, day and night mode, system setting, screen lock,etc.

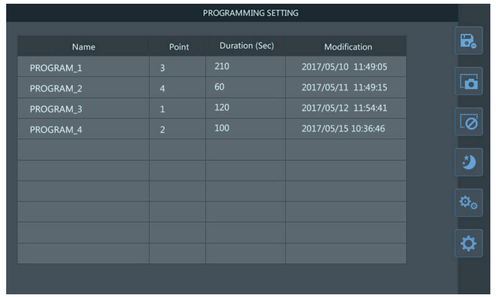
Main interface

Graph interface



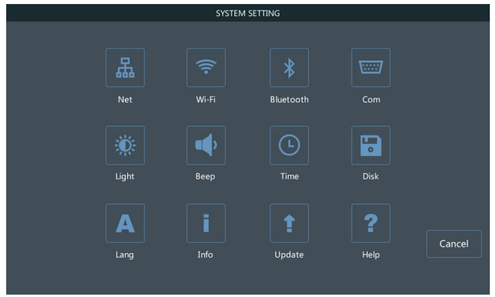
Programmable Humidity Calibration

HG6000 can conduct programmable humidity calibration according to calibration requirement, setting calibration point and the sustainable time after reaching the stable point.



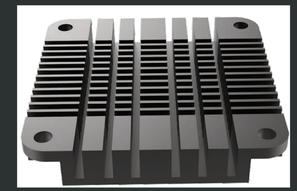
System Setting

Conduct various system parameters configuration by clicking the shortcut keys setting in the main interface.



Humidity Generation

- Support fast humidity generation 10~95%RH
- 30%RH changing time less than 5 mins



Temperature Control

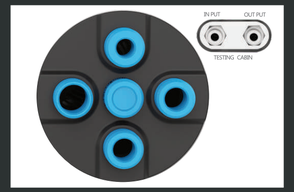
- Semiconductor temperature control technology
- Fast stabilization function
- 5~50℃ temperature control range

Programmable Control

- Set the steps and holding time for convenient reading
- Set the calibration points, stable time and error judgment, etc. to realize the fully auto calibration

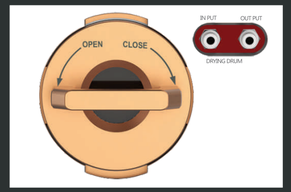
Color Touchscreen

- 9 inch super big TFT LCD display
- Capacitive touchscreen operation



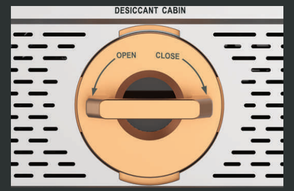
External Calibration Chamber

· Support bigger external calibration chamber



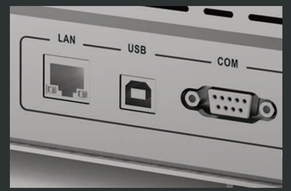
External Drying Drum

· Support both built-in and external desiccant simultaneously, and could use external desiccant chamber during long-term use



Drying drum fast-assembling design

· Support desiccant fast change
· Support different kinds of desiccants

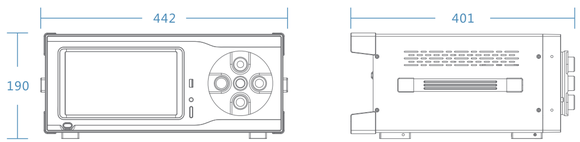


Communication

· Support RS232/RS485/USB/LAN/Wi-Fi communication
· Support remote control and group networking application
· Support embedded Web operation

Technical Specification	
Humidity range	10~95%RH
Temperature range	5~50℃
Humidity control stability	≤±0.2%RH
Temperature control stability	0.1℃(23℃), 0.2℃(Full Scale)
Temperature accuracy	≤0.2℃
RH accuracy of reference sensor(23℃)	±1.0%RH(10~90%RH); ±2.0%RH(≤10, ≥90%RH)
T&RH stability of the calibration chamber	±0.2%RH; ±0.1℃
T&RH homogeneity of the calibration chamber	±0.3%RH; ±0.2℃
RH adjusting response time	Change with 30%RH costs less than 5 mins
Average cooling speed	1.0℃/min(Environment temperature than less 23℃)
Heating speed	3.0℃/min
Calibration chamber inside diameter dimension	Φ110×200mm
Calibration window dimensions	Φ25mm, Φ18mm, Φ15mm, Φ12mm, special dimension for option
Working environment	-10~40℃, 10%~95%RH(Non condensing)
Storage environment	-20~70℃, 10%~95%RH(Non condensing)
Desiccant	Silicagel, reusable
Display	9 inch TFT color touch screen
Power supply	100~240VAC 1.3A, 50/60Hz
Communication interface	RS485/232, USB, LAN, Wi-Fi*
Dimensions	442×190×401mm(w/h/d) (4U, size of 19 inch rack)
Weight	16kg
Certificates	CE, FCC, VCCI, C-TICK

Dimensions(mm)



Standard Accessories

Serial communication cable

LAN communication cable

USB communication cable

Power cable

Calibration Certificate

User's manual

Warranty card

Qualification

Maintenance manual

WEEE card

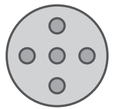
CD

Optional Accessories

Sensor adaptor

For HMP155

For DM2000 dew point sensor



For HC2-S

Ordering Information

Ordering model	Features
HG6000-PRO	Support dew point sensor control
HG6000-STD	Support electrical signal measurement
HG6000-LTD	No electrical signal measurement