CaTeC MEETINSTRUMENTATIE

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HG6000

Humidity Generator 6000 Series

- Humidity control range 5 ~ 95%RH
- Temperature control range 5 ~ 50℃
- Humidity stability ±0.2%RH
- Temperature stability ±0.1℃
- Full scale stability less than 10 mins
- Support to calibrate 6 sensors at the same time

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
- Temperature control range 5~50℃
- Humidity stability ±0.2%RH
- Temperature stability ±0.1℃
- Full scale stability less than 10 mins
- 9 inch TFT color touch screen for better reading experience
- Support to calibrate 6 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

Power key
Power on or off

Front USB interf
External USB flash d

Testing hatch cover

Seal the test cabin and fix the tested equipment

Interface Area of Tested Instrument

Data communication/signal acquisition

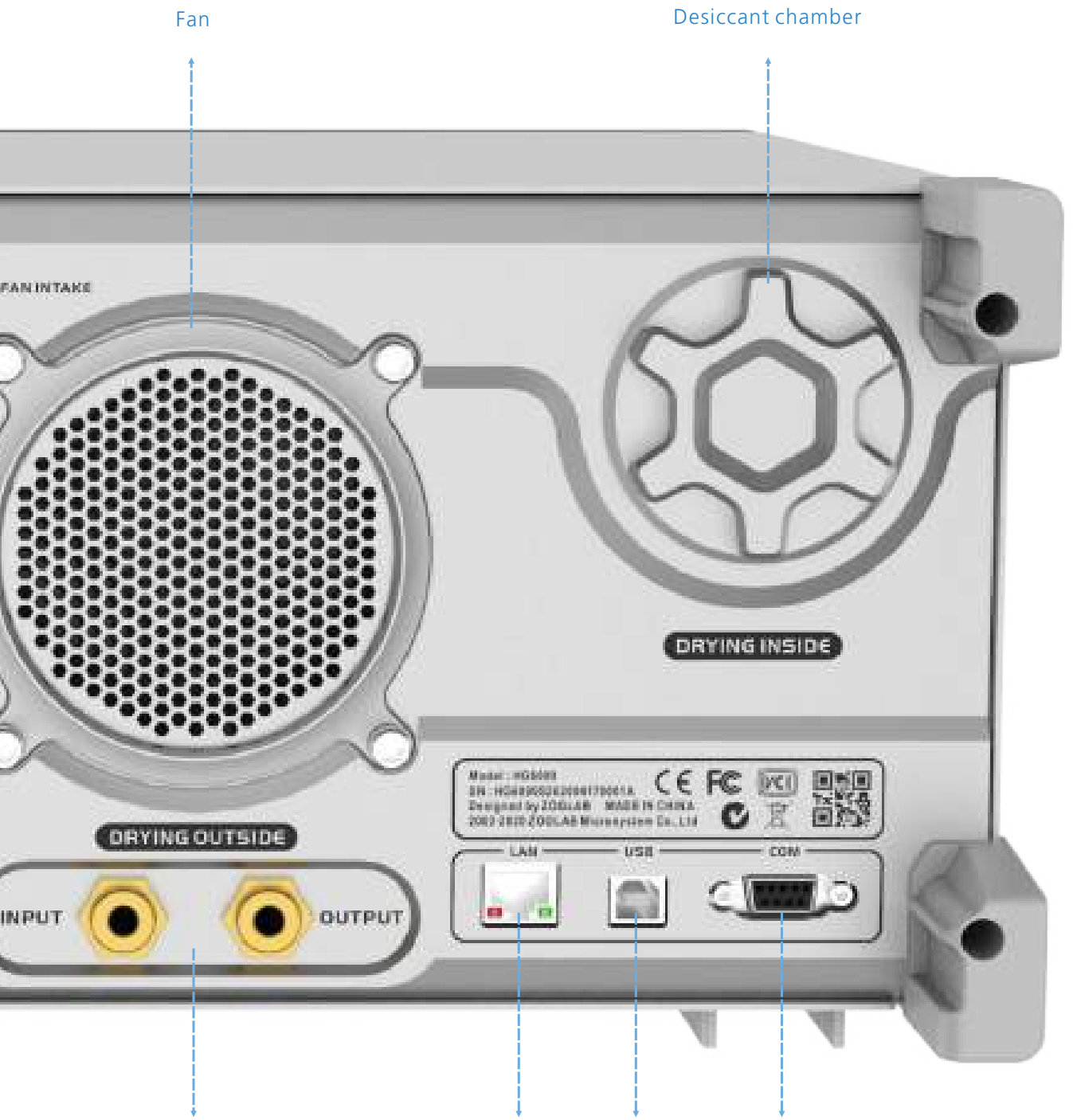
face

drive, database import and export

Calibration window size

Φ12~19mm, special size optional

HG6000 · Host Machine


Fan
Desiccant chamber
FAN INTAKE
DRYING INSIDE
DRYING OUTSIDE
INPUT
OUTPUT
LAN
USB
COM
Drying drum outer expansion port
LAN interface
USB interface
RS232/485 interface

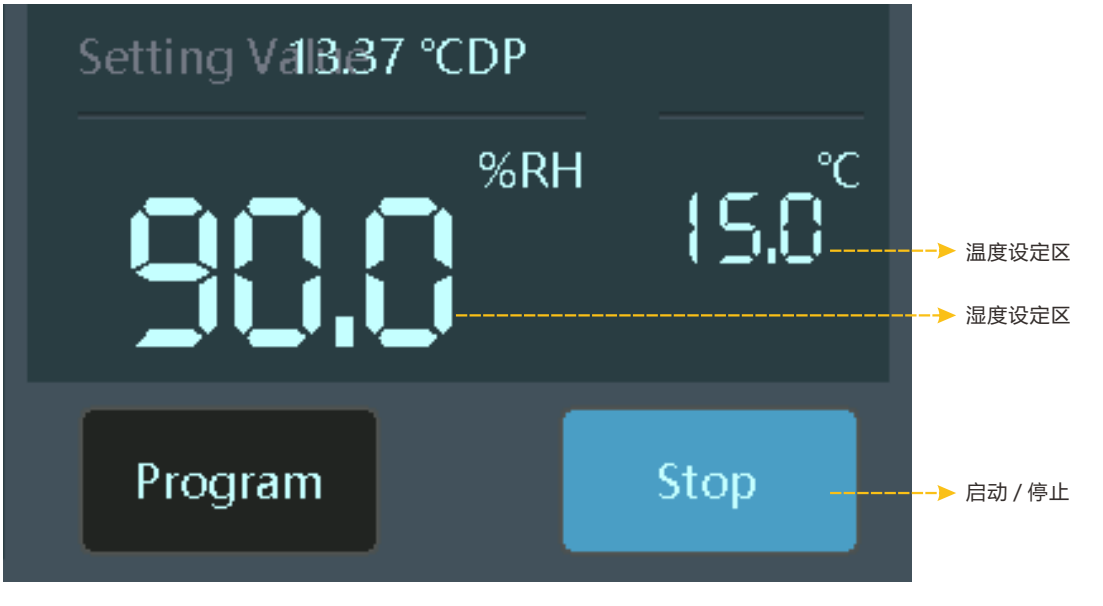
HG6000 · Human-machine Interactive Interface

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.

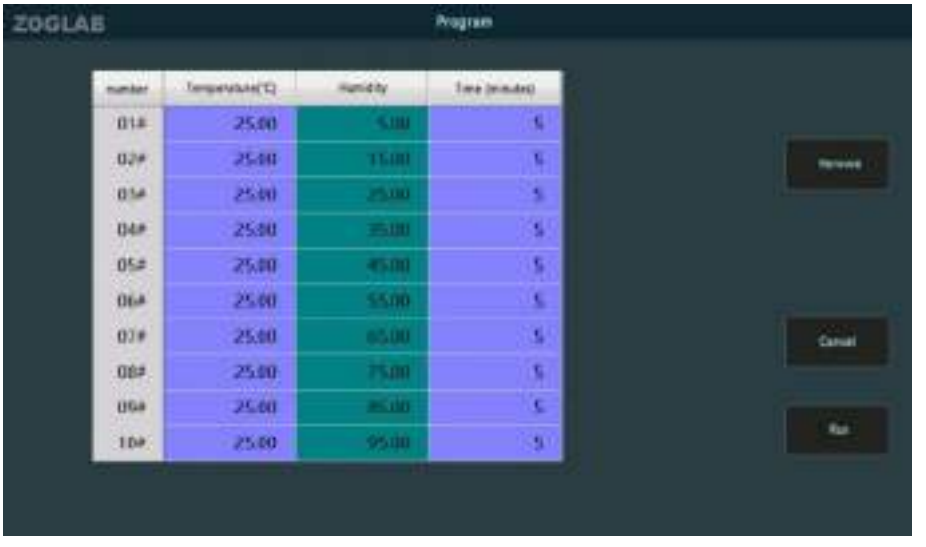
主界面

设定界面



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.



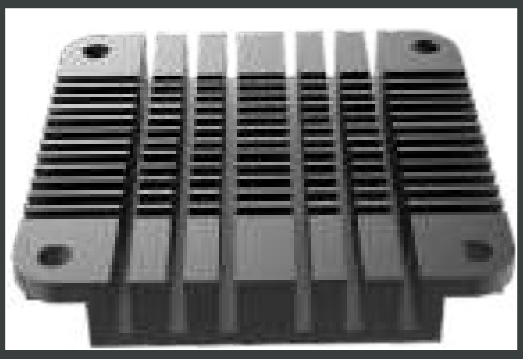
System Setting

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

HG6000 · Functions and Features

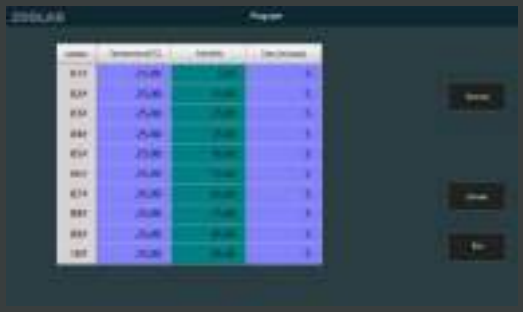
Humidity generation

· Support fast humidity generation 5~95%RH
· The change time of 30%RH is less than 5 minutes



Temperature control

· Semiconductor temperature control technology
· Fast stability function in room temperature
· temperature control range



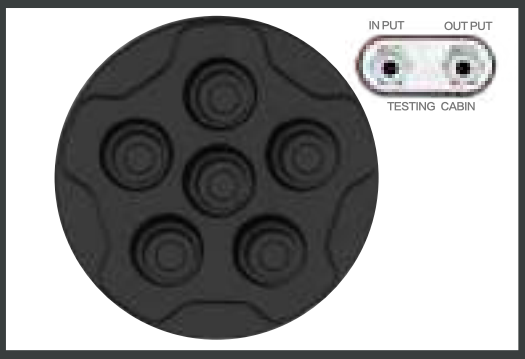
Programmable control

· 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

Display

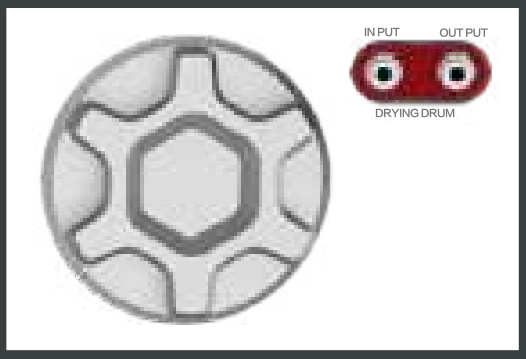
· 9 inch TFT LCD display
· Capacitive touchscreen

HG6000 · Functions and Features



Expanded test chamber

· The test chamber supporting local calibration can also expand the capacity test chamber



Externally expanded desiccant chamber

· At the same time, it supports the use of internal and external desiccant, and the external desiccant cabin can be used for long-term use

Drying drum fast-assembling design

· Support desiccant fast change
· Support a variety of desiccants

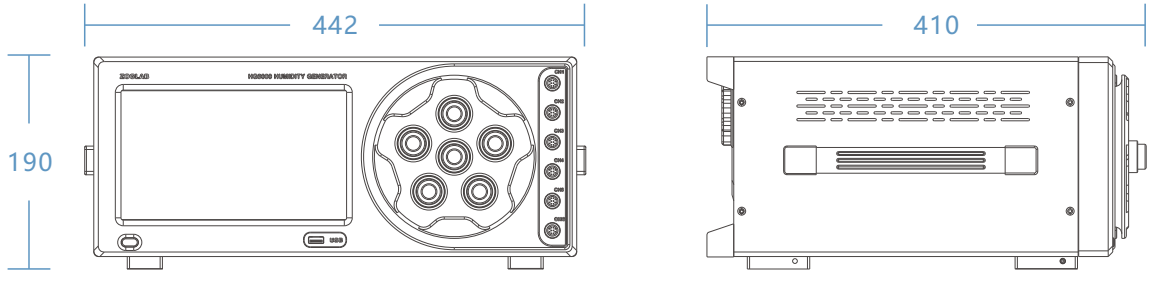
Communication

· Support RS232/485, USB, LAN and Wi-Fi communication
· Support remote control and networking
· Support embedded web operation

HG6000 · Technical Specification

Technical Specification	
Humidity range	5~95%RH
Temperature range	5~50℃
Humidity control stability	±0.2%RH
Temperature control stability	±0.1℃(23℃±2℃)，±0.2℃(Full scale)
Temperature accuracy	≤0.2℃
Humidity accuracy of standard probe (23℃)	±1.0%RH(10~90%RH)；±2.0%RH(≤10，≥90%RH)
Temperature and humidity stability of the verification chamber	±0.2%RH；±0.1℃
Temperature and humidity uniformity in the verification chamber	±0.3%RH；±0.2℃
Humidity adjustment response time	30%RH change in less than 5 minutes
Average heating rate	3.0℃/min
Average cooling rate	1.0°C/min (ambient temperature is lower than 23°C)
Calibration chamber inside diameter dimension	Φ96×120mm
Calibration window size	Φ12~19mm，special size optional
Working environment	-10~40℃，10%~95%RH(No condensation)
Storage environment	-20~70℃，10%~95%RH(No condensation)
Desiccant	Molecular sieve desiccant
Display	9-inch, 1024×600TFT LCD display
Power supply	100~240VAC 1.5A，50/60Hz
Communication interface	RS485/232，USB，LAN，WiFi*
Dimensions	442×190×410mm(Standard 4U, 19-inch rack mounting size)
Weight	18.8kg
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

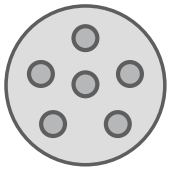
Qualification

Maintenance manual

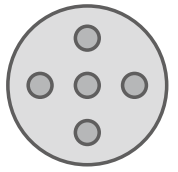
WEEE card

Optional Accessories

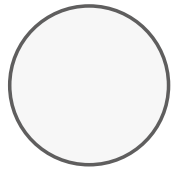
Sensor adaptor



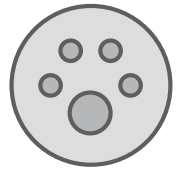
M01
Φ15~18×6
For HC2-S



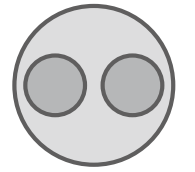
M02
Φ12~15 ×5



M03
Transparent acrylic cover



M04
Φ12~18 +Φ30mm
For DSP2000 dew point sensor



M05
Φ30×2
For DSP2000 dew point sensor

Ordering Information

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