


[DATA SHEET](#)

GH 500



Hygrometry bench

#Part number: 24897

Designed for professionals of metrology, the hygrometry generator allows the adjustment and calibration of measuring instruments in laboratory or on-site.



Calibration of several instruments simultaneously



Aluminum frame



Portable instrument



Solid transport case



Multi-probe ventilated measuring chamber



Interchangeable regulating probe

Technical features in measurement and in hygrometry generation

Parameter	Accuracy ⁽¹⁾	Measuring range	Generation range
Hygrometry	Accuracy (Repeatability, linearity, hysteresis): $\pm 1.5 \%RH$ (from 15 °C to 25 °C) Drift linked to temperature : $\pm 0.04 \times (T-20) \%RH$ (if $T < 15\text{ °C}$ or $T > 25\text{ °C}$)	From 5 to 95 %RH	From 10 to 85 %RH
Pt100 Temperature (°C, °F) ⁽²⁾	From -40 to 150 °C (-40 to 302 °F)	From -20 to +80 °C	N/A

⁽¹⁾All accuracies indicated in this document were stated in laboratory conditions and can be guaranteed for measurements carried out in the same conditions, or carried out with calibration compensation.

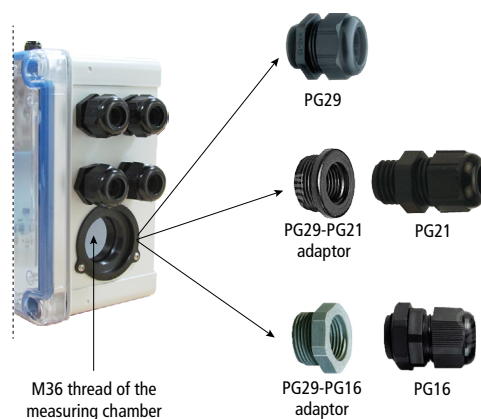
⁽²⁾Si-PRO-U-I-150 stainless steel hygrometry/temperature probe technical specifications in temperature.

General features

K38 display	4 red digits, height: 12 mm 3-led bargraph
Si-CPE320 display	Graphic touchscreen Size: 480 x 272 pixels
Power supply	100-240 Vac / 50-60 Hz
Protection	1 A 250 V time delay fuse
Consumption	20 W
Operating temperature	From 18 to +25 °C (as stable as possible)
Storage temperature	From -10 to + 70 °C
Environment	Air, non-aggressive gases, non-corrosive gases Maximal altitude: 2000 m Non-condensation conditions
Weight	9 kg
Conformity	2014/30/EU EMC; 2014/35/EU Low Voltage; 2015/863 EU (RoHS 3); 2012/19/EU WEEE
Instrument to connect to earth protection	
Protection class	1
Pollution degree	2
Over-voltage category	2
Protection	IP 30

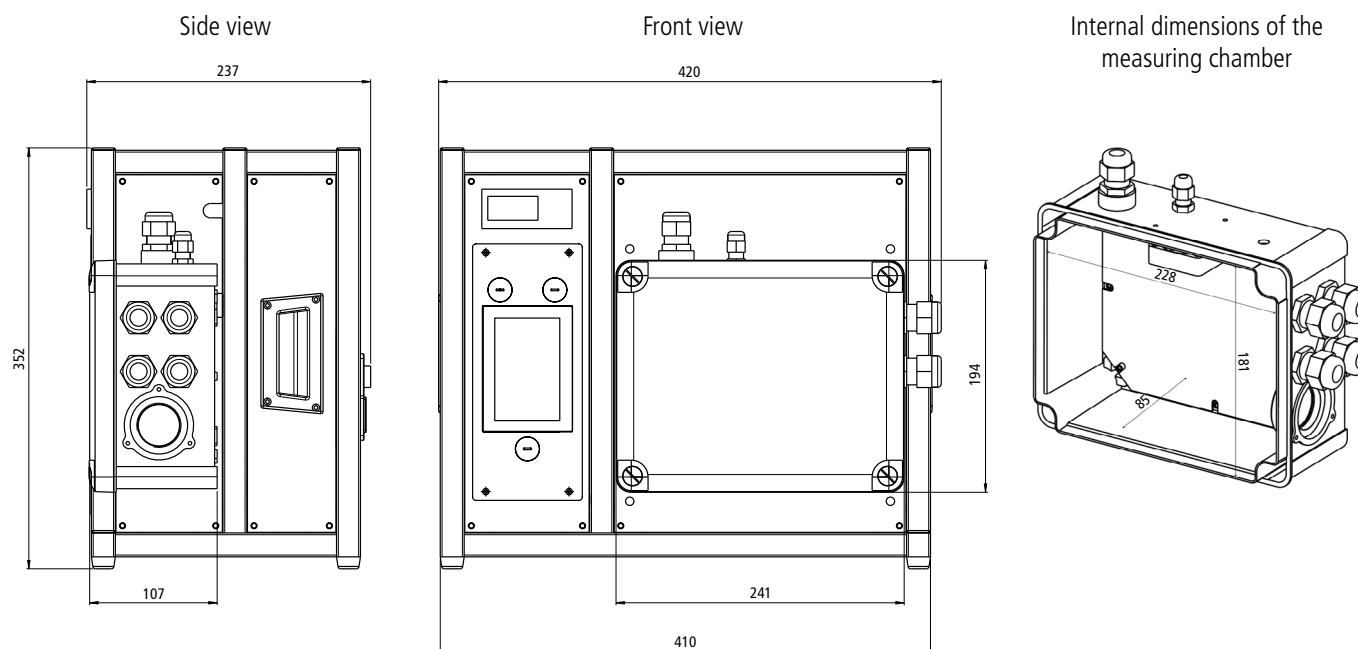
Kit content

- 1 x PG29 cable gland
- 1 x PG21 cable gland
- 1 x PG16 cable gland
- 1 x PG29-PG16 reducer
- 7 x plug sets
- 1 x bottle of demineralised water of 250 ml
- 1 x bottle for the transport of demineralised water
- 1 x bottle of desiccant pearls of 110 g for drying cartridge
- User manual
- 1 x power supply



The M36 thread (min. Ø 34.5 mm with 1.5 mm screw thread) is suitable for inserting a cooled mirror hygrometer, for example.

Dimensions (mm)



Maintenance:

We carry out calibration, adjustment and maintenance of your devices to guarantee a constant level of quality of your measurements. As part of Quality Assurance Standards, we recommend you to carry a yearly checking.

Precautions for use:

Please always use the device in accordance with its intended use and within parameters described in the technical features in order not to compromise the protection ensured by the device.

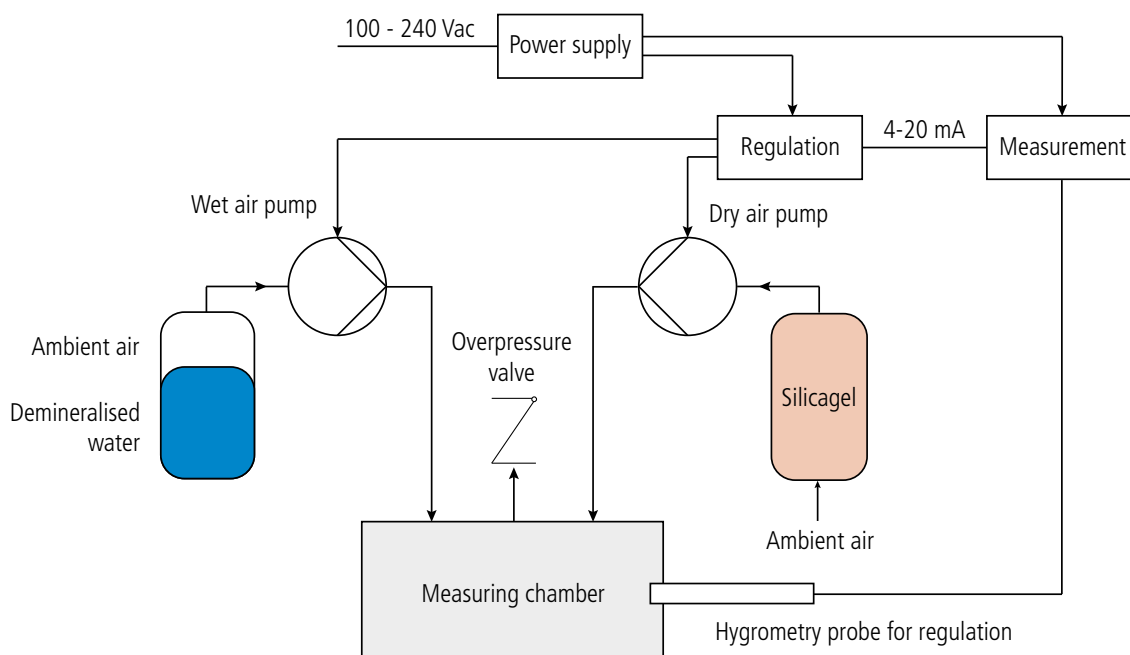
Instrument description



- 01. K38 controller with adjustable setpoints
- 02. K38 keypad: selection of the setpoint value
- 03. Si-CPE320 transmitter for measurement of the chamber
- 04. Si-CPE320 touchscreen: configuration of the transmitter
- 05. Blower
- 06. Si-PRO-U-I-150 thermo-hygrometry measuring probe for Si-CPE320
- 07. Metallic mounting plate to magnetize the instruments
- 08. Overpressure control exhaust outlet
- 09. Measuring chamber with front opening
- 10. Cable gland for Ø 13 mm probes
- 11. M36 thread (min. Ø 34.5 mm with 1.5 mm screw thread), suitable for inserting a cooled mirror hygrometer
- 12. Moisture cartridge
- 13. Drying cartridge
- 14. On/Off key
- 15. Power supply

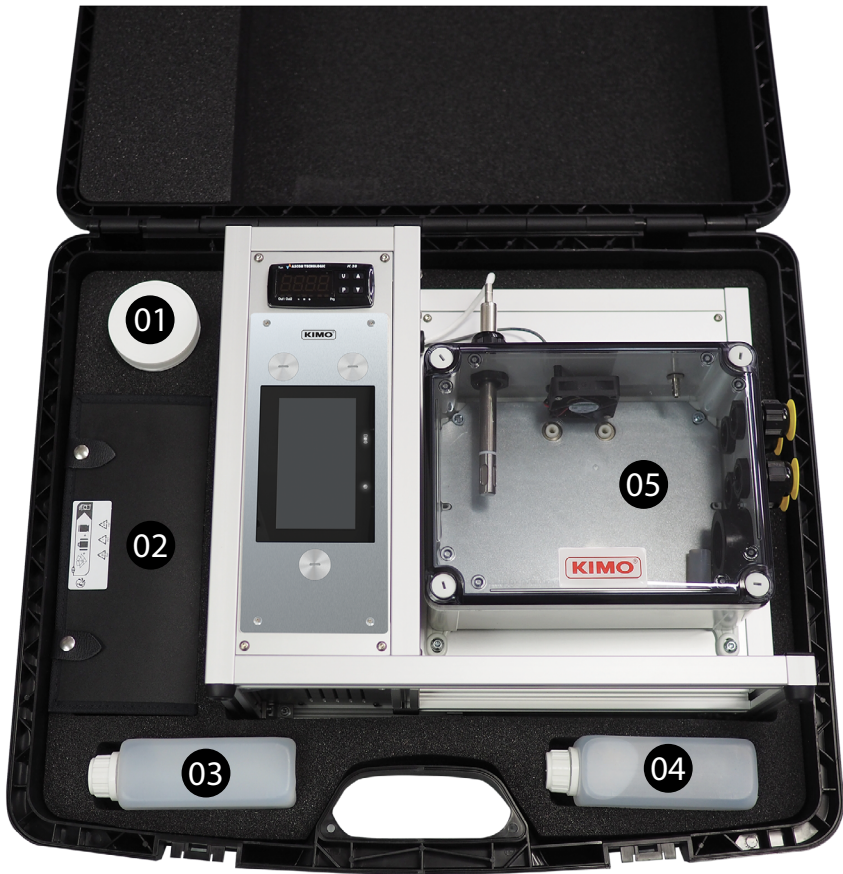
Simplicity and stability

GH 500 instrument is the key instrument to adjust and calibrate in ambient air your measuring instruments in hygrometry. Easy-to-use, it will guarantee fast and stable hygrometry generations.



Transport case

- 1. Desiccant pearls flask (110 g)
- 2. Location for accessories
- 3. Demineralised water flask (250 ml)
- 4. Flask n°2 for the transport of the demineralised water (250 ml)
- 5. GH500



Accessories

Designation	Sales reference	Description
DCS-GH	25393	130 ml bottle of DCS-H type desiccant pearls for drying cartridge of hygrometry generator. Allows you to replace the used desiccant pearls in the GH 500 desiccant cartridge. 1 cartridge = 110 g.

Kimo, a Sauermann brand.

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