KIMO INSTRUMENTS

Technical Data Sheet

Pressure / Temperature / Humidity / Air velocity / Airflow / Sound level

GP 500 - 1

GP 500 - 2

High **accuracy** 0.01 Pa

Leak **test**

Automatic **Autozero**

Modifiable **table**

Generation **of pressure**

Transportable standard

NEW

DESIGNED FOR PROFESSIONALS OF METROLOGY

THE PRESSURE GENERATOR ALLOWS TO ADJUST AND CALIBRATE MEASUREMENT INSTRUMENTS IN LABORATORY OR ON-SITE.

The GP 500 instrument has 2 versions :

GP500 - 1 ..... from -2500 to +2500 Pa

GP500 - 2 ..... from -10 000 to 10 000 Pa

- Specific connectors
- Larged backlighted display
- Configuration software
- 20 programs with adjustable generations
- Solid transport case
- Aluminium housing with adjustable carrying handle

COMPLIES WITH EN 61010-1

French manufacturer

www.kimo.fr

FEATURES

MAIN TECHNICAL FEATURES

Display	**Backlighted graphical LCD** Size : **85 x 51 mm** Resolution : **240 x 180 pixels**
Measuring ports connection	**Ribbed connectors Ø 4x7 mm tubes**
Generation ports connection	**Quick-coupling connectors DN2.7**
Power supply	**100 - 240 Vac ±10% / 50-60 Hz or on batterry**
Consumption	**19 W**
Battery life	**8 hours**
PC interface	**USB**
Operating temperature	**From 0 to + 50° C**
Storage temperature	**From -10 to + 70° C**
Environment	**Air, non-aggressive gases, non-corrosive gases**
Languages	**French, English**
Weight	**4.5 kg**
Conformity	**EMC 2004/108/CE and EN 61010-1 directives**
Fuse on the phase and on the neutral	**Time delay 1 A 250 V**
Instrument to connect to earth protection	⏚

TECHNICAL FEATURES IN PRESSURE MEASUREMENT AND PRESSURE GENERATION

GP 500 - 1	
Measuring range	**From -2500 to +2500 Pa**
Accuracy*in measurement	**±(0.15% |Reading value| +0.8) Pa**
Generation Range	**From -5 to -2500 Pa and from +5 to +2500 Pa**
Accuracy*in generation	From ±5 to ±2500 Pa : **±1 Pa**
Resolution	From -2500 to -1000 Pa : **1 Pa** From -1000 to -100 Pa : **0.1 Pa** From -100 to +100 Pa : **0.01 Pa** From +100 to +1000 Pa : **0.1 Pa** From +1000 to 2500 Pa : **1 Pa**
Autozero	**Automatic** **Manual (via keypad)**
Units	**Pa, daPa, hPa, mmH_2O, mmHg, mbar, inWg**

GP 500 - 2	
Measuring range	**From -10 000 to +10 000 Pa**
Accuracy* in measurement	**±(0.15% |Reading value| +6 Pa) Pa**
Generation range	**From -10 000 to -50 Pa and** **from +50 to +10 000 Pa**
Accuracy* in generation	From -10 000 to -50 Pa : **±10 Pa** From +50 to +1000 Pa : **1 Pa** From +1000 to +10 000 Pa : **10 Pa**
Resolution	From -10 000 to -1000 Pa : **1 Pa** From -1000 to -100 Pa : **0.1 Pa** From -100 to +100 Pa : **0.01 Pa** From +100 to +1000 Pa : **0.1 Pa** From +1000 to +10 000 Pa : **1 Pa**
Autozero	**Automatic** **Manual (keypad)**
Units	**Pa, daPa, hPa, mmH_2O, mmHg, mbar, inWg**

**All the accuracies indicated in this technical datasheet were stated in laboratory conditions, and can be guaranteed for measurements carried out in the same conditions, or carried out with calibration compensation.*

2 operating modes

- MEASUREMENT
- GENERATION

GP 500 INSTRUMENT IS SUPPLIED WITH :

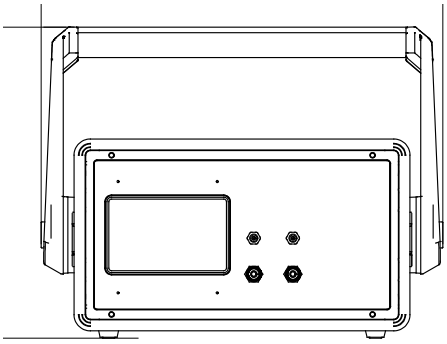
- 2 x 1 m of silicone tube
- A power supply cable
- 1 USB cable
- Configuration software
- 2 quick-coupling DN 2.7
- Calibration certificate
- User manual

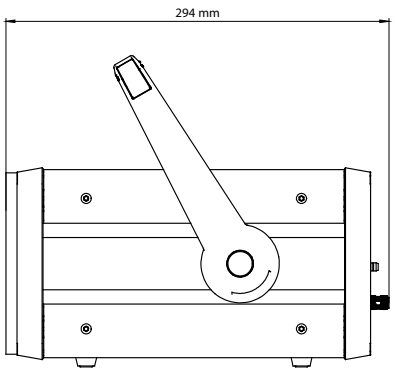
MAINTENANCE

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.

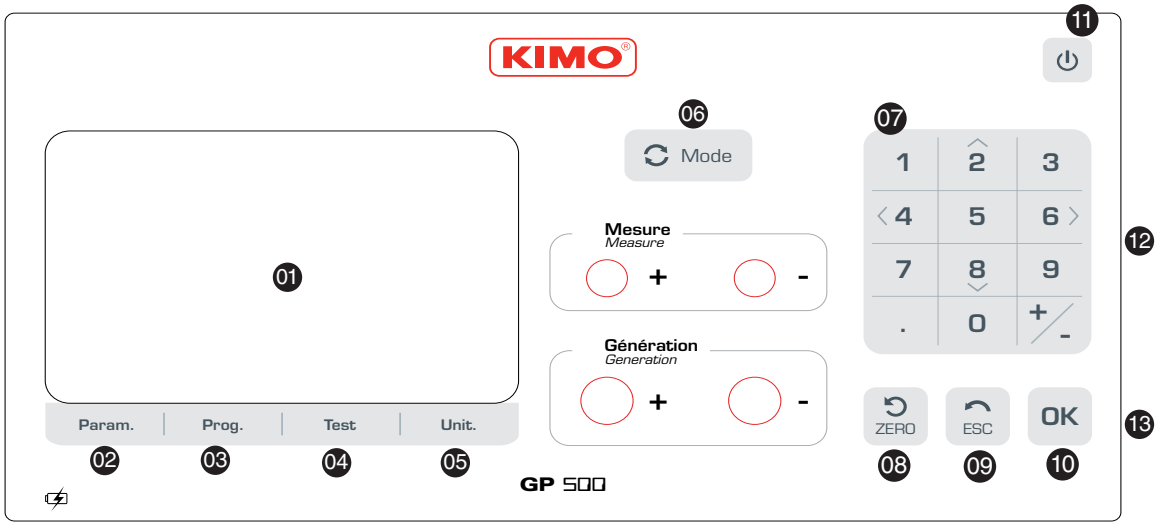
WARRANTY

Instruments have 1-year guarantee for any man facturing defect (return to our After-Sales Service required for appraisal).





USER INTERFACE



01. Screen
02. Param. : configuration of the instrument
03. Prog. : configuration of pressure generation programs
04. Test : leak test
05. Unit. : units modification
06. Mode : mode selection : “Measure” or “Generation”
07. 12 keys keypad with navigation arrows
08. Zero : manual autozero
09. Esc : back
10. OK : validation of the selection
11. On/Off key
12. Power supply on the right side
13. USB port type B on the right side

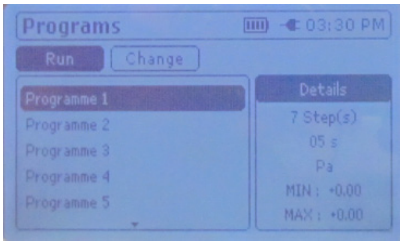
RAPIDITY AND STABILITY

MESUREMENT

The GP 500 is the ideal instrument for the measurement of a dynamic pressure.

GENERATION

The pressure setpoints rapidely reached thanks to the enslavement of the pneumatic system are of a proven stability.
The GP500 also offers to configure programs allowing to automate the pressure generation. This easy-to-use function allows to save a precious time for serial controls.



The **Program** function allows to defince the number and the duration of the different stages to reach.
It is possible to save up to 20 different programs with 20 setpoints values (stages) by programm.

AIR-TIGHTNESS TEST

AIR-TIGHTNESS

The air-tightness test allows to test the integrety of an airflow network. With its configurable parameters, the air-tightness test gives clear and fast results of the situation, on-site or in laboratory.

FTang- GP500 - 30/10/18 - RCS (24)Périgueux 349 282 095 - Non-contractual document – We reserve the right to modify the characteristics of our products without prior notice.

www.kimo.fr

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