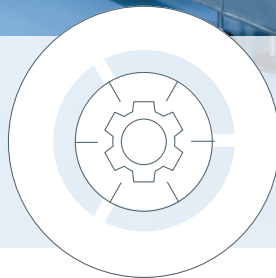




**ENVIRONMENTAL
MEASUREMENT TECHNOLOGY**
HANDHELD MEASURING DEVICES



Greisinger G 1000 series.

Handheld measuring devices of highest quality for pressure, water, gas and temperature.

PRC Technologies Corp., Ltd. ลาดพร้าว 101 กรุงเทพฯ 10240

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Greisinger G 1000 series.

Handheld measuring devices from Greisinger make environm

Our handheld measuring devices with reliable sensor technology are the first choice when it comes to and in a practical manner directly on site. The G1000 Series devices are partners of the craft, of tech



PRESSURE



WATER



CO₂



TEMPERATURE

ental measuring technology tangible.

**determining all essential environmental parameters precisely, easily
nicians on site and ambitious hobbyists.**



Pressure is one of the most important state variables besides temperature. Pressure plays a crucial role in determining the condition of heating and sanitary systems, in climate measurements and in power plant and energy technology, as well as in food production and vacuum manufacturing processes.



Water is the basis of our life. Physical, chemical and biological influences are altering water, which in turn has an effect on us and our environment. On site but also in the laboratory, essential qualities of water can be quickly recognized and made visible. The results provide the basis for a reliable assessment of water quality.



CO₂ is an indicator of indoor air quality and can also be used as a reference to air hygiene (COVID-19). The CO₂ concentration provides information about the effectiveness of room ventilation. The CO₂ level plays a major role as a physical parameter, indicating adequate indoor air quality. A high-quality indoor air improves the sense of well-being.



Temperature is the most commonly measured physical entity. Besides air temperature, temperature is also measured in a variety of other media, e.g. the operating temperature in industrial plant, flow and return-flow temperatures on radiators, the storage temperature or the core temperature. Temperature readings must be precise and exact. Only then they can fulfill their important role in quality assurance to reliably prevent damage to valuable goods or health.

Our professional pressure measuring devices at best price.

Measurement of differential, absolute pressure and vacuum.

The new G 11xx series are developed for measuring differential and absolute pressure as well as vacuum combined with practical handling. Outstanding precision and fast response as well as unique reliability



G 1107 / G 1113. Differential pressure.

Advantages

- Excellent price-performance ratio
- Measurement resolution and accuracy ensure reliable results
- G 1107: Measuring range up to 200 hPa / 20 kPa,
- high resolution (FINE) up to 0.1 Pascal
- G 1113: Measuring range up to ± 2000 hPa, high resolution (FINE) up to 0.01 hPa, or 0.1 Pascal
- Modern and functional housing – in pocket form factor
- 3-line display / overhead display at simple button touch
- Backlight
- Waterproof (IP67, except pressure ports)
- Robust, long battery life
- Simple universal pressure connection with interchangeable connections
- Calibratable / Traceable



G 1111 / G 1114. Absolute pressure.

Advantages

- Excellent price-performance ratio
- Measurement resolution and accuracy ensure reliable results
- G 1111: Measuring range 0,0.. 1700.0 hPa (mbar)
- G 1114: Measuring range 0... 14000 hPa (mbar)
- High accuracy in the vacuum spectrum
- Very fast measurement for efficient use
- Modern and functional housing – in pocket form factor
- 3-line display / overhead display at simple button touch
- Backlight
- Waterproof (IP67)
- Robust, long battery life
- Simple universal pressure connection with interchangeable connections
- Calibratable / Traceable



G 1111-VAC. Vacuum meter.

Advantages

- Excellent price-performance ratio
- Measurement resolution and accuracy ensure reliable results
- G 1111: Measuring range 0,0.. 1700.0 hPa (mbar)
- G 1114: Measuring range 0... 14000 hPa (mbar)
- High accuracy in the vacuum spectrum
- Very fast measurement for efficient use
- Modern and functional housing – in pocket form factor
- 3-line display / overhead display at simple button touch
- Backlight
- Waterproof (IP67)
- Robust, long battery life
- Simple universal pressure connection with interchangeable connections
- Calibratable / Traceable



– the primary focus is to provide essential measuring technology
make the device a perfect partner for craftsmen.

Fields of application

- Heating Technology
- Building, industry and equipment technology
- Production and residential technology



Fields of application

- Monitoring and measuring vacuum performance
- Food production, food processing and food retail
- Packaging machines
- Vacuum potting
- Vacuum infusion process
- Vacuum measurement



Fields of application

- Monitoring of vacuum performance of industrial vacuum machines
- Monitoring of vacuum packaging machines in professional food production, food processing and food retail.
- Industrial packaging machines with cycle rates of > 1000 evacuations / h



Our water analysis measuring devices for best results. On

Our hand-held measuring instruments with reliable sensor technology are the first choice when it visualizing essential water qualities directly on site or in a lab. They provide the basis for a reliable A lot of small details support daily measuring tasks and make our handheld measuring devices an



G 1409 / G 1410 Water analysis. Conductivity.

Advantages

- Measurement reliability through precision measuring cells with temperature measurement
- Precise measurement (G 1409 to 5000 $\mu\text{S}/\text{cm}$, G 1410 to 100.0 mS/cm)
- Excellent price-performance ratio
- Waterproof (IP65 / IP67)
- 3-line display / overhead display at simple button touch
- Backlight
- Robust, long battery life
- Hold function for freezing of measured values
- Min/Max function for minimum and maximum measured value



G 1420 Water analysis. Ultrapure water.

Advantages

- Measurement reliability through precision measuring cells with temperature measurement
- Modern and functional housing
- Excellent price-performance ratio
- Conductivity up to 2,000 $\mu\text{S}/\text{cm}$
- Waterproof (IP65 / IP67)
- 3-line display / overhead display at simple button touch
- Backlight
- Robust, long battery life
- Hold function for freezing of measured values
- Min/max function for minimum and maximum measured value



G 1500 / G 1501 Water analysis. PH value.

Advantages

- High-quality and inexpensive sensor technology
- Cost-effective standard measurement
- Modern and functional housing
- Excellent price-performance ratio
- Waterproof (IP65 / IP67)
- Backlight
- 3-line display / overhead display at simple button touch
- Robust, long battery life
- BNC connection for exchangeable electrodes
- BNC-pH or redox electrodes (G 1501)
- Devices are also available in practical sets



PHL. Ready-to-use pH buffer solutions.

Immediately ready to use and traceable for convenient and safe calibration of all pH measuring instruments.

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-the-spot clarification.

comes to quickly recognizing and
assessment of water condition.
indispensable daily companion.

- EASY TO USE
- WATER PROOF



Fields of application

- Aquaculture, hydroponics, indoor farming
- Water treatment (e.g. osmosis plants)
(G 1409)
- Boiler Feedwater/Heating Systems
(G 1409)
- Heating systems (G 1410)
- Medicine (G 1410)



Fields of application

- Cooling circuits
- Process water
- Reverse osmosis and similar filters
- Agriculture
- Food production
- Quality assurance
- Service



Fields of application

- Fresh and seawater aquaristics
- Cleaning processes
- Plant breeding, hydroponics, indoor
farming and agriculture
- Laboratories
- Quality assurance
- Service



Our handheld measuring devices for precision and speed.

For measurands such as temperature and CO₂, accuracy and a reliable measurement result is extremely important. The high-quality, easy to handle handheld measuring devices of the 1700 series and the CO₂ handheld



G 1910 Gas analysis. CO₂ monitor with integrated display

Advantages

- Extremely wide measuring range:
 - up to 19999 ppm / 2 % CO₂
 - (variant G 1910-20)
- Charging via USB
- 24 hours battery life
- Audible and visual 2-stage alarm
- Illuminated display
- With metal belt clip and neck loop
- Calibration connection
- Mean value generation over 15 min or 8 h



G 1700 series universal thermometer. Reference thermometer

Advantages

- Available in 2 versions
- With permanently connected sensor:
 - G 1710 / G 1720 / G 1730
- With BNC connection for GF1T-BNC changeable probe: G 1700
- Overhead display at simple button touch
- Hold function for freezing measured values, Min/Max function for minimum and maximum measured value
- Adjustable, Pt1000 precision sensor
- Operating temperature sensor handle and cable up to 250 °C
- Continuous operating temperature 230 °C



Three tailor-made sensor variants.

From practical experience for practical application.

G 1710 (1)

Reference thermometer with immersion sensor

- Ø 3 mm
- rounded tip for liquids
- Pt 1000 precision sensor
- 1 m Cable

G 1720 (2)

Thermometer with robust insertion probe

- Ø 3 mm
- extra robust tip for food
- Pt 1000 precision sensor
- 1 m Cable



Measurement of temperature and gas.

important. A selection of probes is equally important.
measuring device G 1910 offer professional performance at the best price.

ed alarm.

Fields of application

- Air Hygiene
- Air quality monitoring
- Greenhouses
- Energy Management
- Indoor monitoring
- Research and Education
- Air quality monitoring (COVID-19)
in open space offices



ce accurate measurement.

Fields of application

- Most accurate measurements
in liquids and air
- Measurement of core temperatures
(with insertion probe)
- Laboratories
- Quality assurance
- Service
- Food Laboratory



G 1730 (3)

**Thermometer with
extra thin insertion probe**

- Ø 1,5 mm
- super fast, thin lace for gastronomy
and premium cuisine
- Pt 1000 precision sensor
- 1 m Cable



G 1000 series. Measuring instruments and measurands at a glance

Our handheld measuring devices are in daily use in many different applications. Numerous small
In the table below we have listed all available options with order numbers and identification of the

DEVICE	DESCRIPTION
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PRINT

NEW ►	G 1107	Fine manometer with universal port
NEW ►	G 1107	Fine manometer with universal port, incl. 6x1 PVC hose, Case GKK 1002, WPD5 Calibration Certificate
NEW ►	G 1113	Manometer with Universal Port
NEW ►	G 1111	Baro-/Vacuum meter with universal port
NEW ►	G 1111 VAC	Vacuum meter with universal port, completely evacuable
NEW ►	G 1114	Baro-/Vacuum meter with universal port

TEMPERATURE

G 1710	Waterproof alarm thermometer with immersion sensor
G 1710-WPT3	Waterproof alarm thermometer with immersion sensor incl. calibration certificate -20 °C, 0 °C, 70 °C and case GKK 1000
G 1720	Waterproof alarm thermometer with insertion probe
G 1730	Waterproof alarm thermometer with extra thin insertion probe

WATER

	G 1500	Waterproof pH meter including pH electrode
	G 1501	Waterproof pH/Redox meter with Pt1000 input and alarm, instrument without electrode
	G1501	Waterproof pH/Redox meter with Pt1000 input and alarm, instrument with pH electrode and temperature sensor
NEW ►	G 1409	Conductivity measurement, waterproof, compact EC-meter
	G 1410	Universal conductivity measurement up to 100 mS/cm
	G 1420	High-resolution conductivity measurement, ultrapure water up to 100 µS/cm
ACCESSORIES ►	PHL4	Buffer solution pH4
ACCESSORIES ►	PHL7	Buffer solution pH7
ACCESSORIES ►	PHL10	Buffer solution pH10
ACCESSORIES ►	GAK1400	Working and calibration set (pH/redox calibration solution, cleaning and maintenance)

CO₂

G 1910-02	Compact CO ₂ monitor with integrated sensor and alarm
G 1910-20	Compact CO ₂ monitor with integrated sensor and alarm

lance.

details in measuring tasks require variants and practical accessories.
measurands measuring ranges.

MEASUREMENT AREA	NOMENCLATURE	ORDER NUMBER
Extreme resolution up to 0.1 Pa ± 200.0 hPa (mbar)h,	G1107-UT-GE	478468
Extreme resolution up to 0.1 Pa ± 200.0 hPa (mbar)h,	G1107-UT-WPD-GE	480347
Extreme resolution up to 0.1 Pa ± 2000 hPa (mbar) up to 1 Pa resolution	G1113-UT-GE	478471
Measuring range 0.0 ... 1700.0 mbar abs., fast: up to 25 measurements per second	G1111-UT-GE	478474
Measuring range 0.0 ... 1700.0 mbar abs., > 1000 evacuations/h	G1111-UT-VAC-GE	480644
Measuring range 0 ... 14,000 mbar abs., fast: up to 25 measurements per second	G1114-UT-GE	478477
-20 .. +100 °C: ±0.1 K ±1 digit (device with fixed -70..+250 °C: ±0.2 % of MW ±2 digit connected sensor)	G1710-GE	609828
-20 .. +100 °C: ±0.1 K ±1 digit (device with fixed -70 to +250 °C: ±0.2 % of MW ±2 digit connected sensor)	G1710-WPT3-GE	481378
-20 .. +100 °C: ±0.1 K ±1 digit (device with fixed -70..+250 °C: ±0.2 % of MW ±2 digit connected sensor)	G1720-GE	609829
-20 .. +100 °C: ±0.1 K ±1 digit (device with fixed -70..+250 °C: ±0.2 % of MW ±2 digit connected sensor)	G1730-GE	609832
0.0..14.00pH, ±0.02 pH ± 1 digit (at nominal temperature 25 °C)	G1500-GE	609850
0.0..14.00pH, ±0.02 pH ± 1 digit (at nominal temperature 25 °C), redox ± 1500 mV, temperature -0.5 ..+105.0 °C	G1501-GL-GE	611483
0.0..14.00pH, ±0.02 pH ± 1 digit (at nominal temperature 25 °C), redox ± 1500 mV, temperature -0.5 ..+105.0 °C	G1501-GE	611725
Conductivity: 0 ... 5000µS/cm, display of EC, CF and TDS	G1409-L01-GE	480846
Conductivity: 0..2000 µS/cm, 0.00..20.00 mS/cm, 0.0..100.0 mS/cm, display of TDS and salinity	G1410-L01-GE	610006
Conductivity: 0.000..2.000 µS/cm, 0.00..20.00 µS/cm, 0.0..100.0 µS/cm, with automatic measuring range switching	G1420-L01-GE	610007
maximum measurement reliability, traceable to NIST	PHL-4-GE	601369
maximum measurement reliability, traceable to NIST	PHL-7-GE	601371
maximum measurement reliability, traceable to NIST	PHL-10-GE	601373
5 buffer capsules each pH4, pH7 and pH10, 100 ml potassium chloride and 100 ml cleaning solution	GAK1400-GE	603523
0..2000 ppm, accuracy, ±70 ppm CO2 ±3 % of measured value	G1910-02-GE	476043
0..19999 ppm 0,000..2,000 %, accuracy, ±70 ppm CO2 ±3 % of measured value	G1910-20-GE	476044

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**www.ghm-group.de/en/products/highlights/
handheld-measuring-devices-g-1000/**



Greisinger handheld measuring devices.

Measuring pure and relentless..

Very long battery life

Even when used regularly or after months of non-use, our handheld measuring devices always remain ready for use, due to our long battery life. Constant battery changes are therefore a matter of the past.

Ergonomics

Our devices are optimized for easy handling - just hold one of them and you will feel that this is exactly what they are built for. If a device should fall down despite the easy-grip housing, it will still be ready for operation due to its robust design. Many of our devices are even waterproof. So even if the device falls into the water, it is not damaged, and no data is lost.

Precision

Only carefully selected high quality components are used in our measuring devices. Furthermore, our production

manufactures at the highest quality level in Germany.

A perfect combination of qualified specialists, optimized production equipment and methods makes it possible that - freely according to Aristotle - the whole measuring device is much more than the sum of its parts.

The reference

Already during the production process, each individual device is extensively calibrated against retraceable references. Nearly all devices have verification in form of an individual test report as part of the shipment. Additional, calibration services from our calibration laboratory can be combined ex-factory – and can be used on a recurring basis. This retraceability and its verification is the basic requirement for one of the most important fields of application of our devices: to be the traceable reference according to ISO 9001 quality management or alike.

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