

Product Information

G 1410/1420

Conductivity Measuring Device G 1410 / G 1420



- Made in Germany
- Modern and functional housing
- Outstanding price/performance ratio
- Waterproof (IP65 / IP67)
- 3-line display / overhead display at the push of a button
- Backlighting
- Durable, long battery life
- Measurement accuracy with high-precision measuring cells with temperature measurement
- Hold function for freezing measured values
- Min/Max function for minimum and maximum recorded measured value

Features

The primary focus in the development of the new G 1000 series was placed on the essential functions of the measurement technology. Pure measurement with a focus on precision, speed and reliability and compact packaging enable an impressive price/performance ratio, Made in Germany.

The devices also have impressive ergonomics, dust and water protection according to IP 65/67 and display backlighting.

The G 1410 is a universal wide-range conductometer with durable 2-pole measuring cell for measurements in applications from deionised water (purification processes, aquarium applications) to sea water with up to 100.0 mS/cm.

The G 1420 is equipped with a stainless steel purest water measuring cell and specialised for high-resolution measurement of purest water, alcohol, solvents and similar liquids. The resolution is up to 0.001 µS/cm.

The measuring devices can be used in aquarium, aquaculture, plant cultivation, pharmaceutical, laboratory, quality assurance and service (e.g. osmosis systems) applications.

Technical data

| | G 1410 | G 1420 |
|----------------------------|--|---|
| Measuring | Wide-range meas. device, incl. graphite meas. cell | Cleanest water version, incl. stainless steel measuring cell |
| Measuring ranges | Conductivity, salinity, TDS | Conductivity, specific resistance, NaCl |
| Conductivity | 0..2000 µS/cm 0.00..20.00 mS/cm 0.0..100.0 mS/cm | 0.000..2.000 µS/cm 0.00..20.00 µS/cm 0.0..100.0 µS/cm |
| Specific resistance | | In MOhm*cm 0.0100..0.2000 0.010..2.000 0.01..20.00 |
| TDS | 0..2000 mg/l | |
| Salinity (PSU) | 0.0..50.0 g/kg | |
| Temperature | | -5.0..+105.0 °C |
| Accuracy | | |
| Conductivity | ±0.5 % of meas. v ±0.5 % FS | Typ. ±1% of m. value ±0.5 %FS |
| Temperature | ±0.3 °C | ±0.3 °C |
| Temperature compensation | Off: deactivated nLF: non-linear, acc. to EN 27888 | Off: deactivated nLF: non-linear, acc. to EN 27888 LIN: linear with variable coefficients NaCl: For weak NaCl solutions in accordance with EN 60746-3 |
| Reference temperatures | 20 and 25 °C | 20 and 25 °C |
| Sensors / measuring inputs | Permanently connected 2-pole measuring cell with integrated temperature sensor | |
| Measuring cell | 2-pole meas. cell, Ø 12 mm graphite Cable 1.2 m (others avail. for additional charge) | 2-pole measuring cell, Ø 12 mm (stainless steel) 1.4404, 1.4435)) Cable 1.2 m (others avail. for add. charge) |
| Range of application | | -5..+80 °C (temporarily 100 °C) |
| Display | | 3-line with battery status indicator, background light, protected by an break-proof pane, overhead display at key press |
| Operation | | 4 long-lasting, easy-to-operate buttons |
| Additional functions | | Automatic measuring range shifting, automatic temperature compensation |
| Display unit environment | | -20..+50 °C |
| Current supply | | 2 x AA battery, >1000 h operating time |
| Ingress protection | | IP 65 / 67 |
| Housing | | Break-proof ABS housing |
| Dimensions | | 108 x 54 x 28 mm (H x W x T) without sensor |
| Weight | | approx. 200 g (G 1410) approx. 230 g (G 1420) |

Product Information

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Measuring cell



Measuring cell G 1410, wide-range 2-pole graphite: Low-maintenance and applicable up to 100 mS/cm



Measuring cell G 1420, purest water 2-pole stainless steel/Peek: High-resolution up to 0.001 µS/cm.

Scope of delivery

- Dust-proof and waterproof handheld measuring device according to IP 65/67
- Permanently connected measuring cell:
G 1410: 2-pole graphite measuring cell up to 100 mS/cm
G 1420: 2-pole stainless steel/Peek measuring cell up to 100 µS/cm
- Test report
- 2x AA battery
- Operating manual

Ordering code

G 1410 -

| 1. | Option |
|------|--|
| | Device, measuring cell LF 202, 2-pole graphite, permanently connected |
| 1002 | Device, measuring cell LF 202, 2-pole graphite, permanently connected, in case GKK1002 |

G 1420 -

| 1. | Option |
|------|--|
| | Device, measuring cell LF 200 RW, 2-pole stainless steel/Peek, permanently connected |
| 1002 | Device, measuring cell LF 200 RW, 2-pole stainless steel/Peek, permanently connected, in case GKK 1002 |

Accessories

GKL 100 (article no. 601396)
 Conductivity control solution (100 ml bottle with 1413 µS / cm, in accordance with DIN EN 27888)

GKL 101 (article no. 601398)
 Conductivity control solution (250 ml bottle with 84 µS / cm)

GKL 102 (article no. 601400)
 Conductivity control solution (100 ml bottle with 50 mS / cm)

HD-22-3 (article no. 700040)
 Freely positionable, flexible laboratory electrode holding arm. For probes with Ø 12 mm

GWZ-01 (article no. 603499)
 Glass flow vessel (for measuring cells Ø 12 mm, hose connection Ø 6 mm)

ST-G1000 (article no. 611373)
 Device protection bag with 1 round cut-out

GB AA (article no. 610049)
 Spare battery AA (2 batteries required)

Case

GKK 1001 (article no. 611604)
 Compact storage of the device

GKK 1002 (article no. 411907)
 With recesses for a device with sensor of G1400/G1500/G1600 series. Additional recess for temperature sensor GF1T (235 x 185 x 48 mm)

- Additional accessories on request or in our catalogue

Additional accessories

ISO calibration certificates

ISO-WPL3 (article no. 602622)
 ISO calibration certificate with 3 test points:
 ~147 µS/cm, ~1413 µS/cm, ~12.90 mS/cm

ISO-WPL3-RW (article no. 602624)
 ISO calibration certificate with 3 test points:
 ~2.50 µS/cm, ~7.00 µS/cm, ~15.00 µS/cm