



Connectable PC



Thermal or dot matrix printer. Optional.

Support for cell. With groove for cable, thereby protecting it from breakage.

Large graphic display. Speaks for itself.

Calibration flasks with magnetic stirrer bar.

Industrial quality, easy to use key-pad.

Integrated magnetic stirrer.

PC Keyboard. Optional.



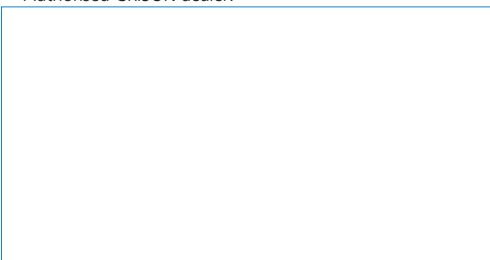
GLP 31+ is a high performance instrument including all necessary accessories to measure electrical conductivity. Equipped with stirrer, calibration flasks, interface RS 232 C, connection for external PC keyboard or barcode reader.

Data Logger for the last 400 measurements, calibration data and cell record. These data can be shown on display, sent to printer or PC through the RS 232 C.

The incorporated electronics adapt to platinum and titanium cells. In addition to Electrical Conductivity (EC), possibility for salinity (NaCl) and total dissolved solids (TDS) measurements.

The elaborate software makes utilisation easy. The instrument guides the customer without need to read user's manual.

Authorised CRISON dealer:



Software ComLabo (optional). For bi-directional communication with PC. It allows for communication between CRISON's modules, for example, pH measurements with automatic sample changer.

EC-Meter GLP 31+. Specifications



Measured parameters (resolution depending on scale)

| | |
|--------------|---------------------------------|
| Conductivity | 0.001* μ S ... 1000** mS/cm |
| Salinity | 5.85 mg/l ... 311.1 g/l NaCl |
| T.D.S. | 0 mg/l ... 500 g/l |
| °C | -20.0 ... 150.0 |

* with C=0.1 cm⁻¹ ** with C=10 cm⁻¹

Measurement error Reproducibility

| | | |
|---------------------|------------------|------------------|
| | (\pm 1 digit) | (\pm 1 digit) |
| Conductivity | \leq 0.5% | \pm 0.1 % |
| Salinity and T.D.S. | \leq 0.5% | \pm 0.1 % |
| °C | \leq 0.2 | \pm 0.1 °C |

Automatic temperature compensation

CT (temperature coefficient) **Linear**, 0.00 ... 5.00 % / °C.

Non linear for natural waters (UNE EN 27888).

TR (reference temperature) 20 °C, 25 °C. or values between 0...99 °C.

EC Calibration (conductivity)

Standards: 147 μ S/cm , 1413 μ S/cm, 12.88 mS/cm and 111.8 mS/cm

With 1, 2 or 3 standards selectable inside the range.

Special calibration at any EC, salinity or TDS value.

Manual introduction of cell constant.

Programmable calibration validity from 0 to 99 days.

TDS conversion factor

Values between 0.4 ... 1. Standard 0.64.

Temperature readjustment

Correction of the temp. probe deviation (A.T.C.) at 25 °C and 85 °C.

Data Logger

Storage capacity up to 400 readings.

Languages

Spanish, Italian, French, English and Polish.

Display

Graphic, backlit liquid crystal, 128x64 dots.

Connectable sensors

Conductivity cell with Pt 1000 probe, telephone connector.

Connectable peripherals

CRISON magnetic stirrer.

Printer or PC.

External PC keyboard or barcode reader.

Directives low voltage and EMC

According to 2004/95/EC. According to 2004/108/EC.

Power supply

External plug-in power supply 220VCA/12 VDC, 3.3 W.

Materials

Enclosure, ABS and PC. Keypad, PET.

Physical parameters

Weight: 800 g. Size: 325 x 155 x 98 mm.

Specifications subject to change without notice.



Cells

- With 8 contact telephone connector.
- All include temperature sensor Pt 1000.

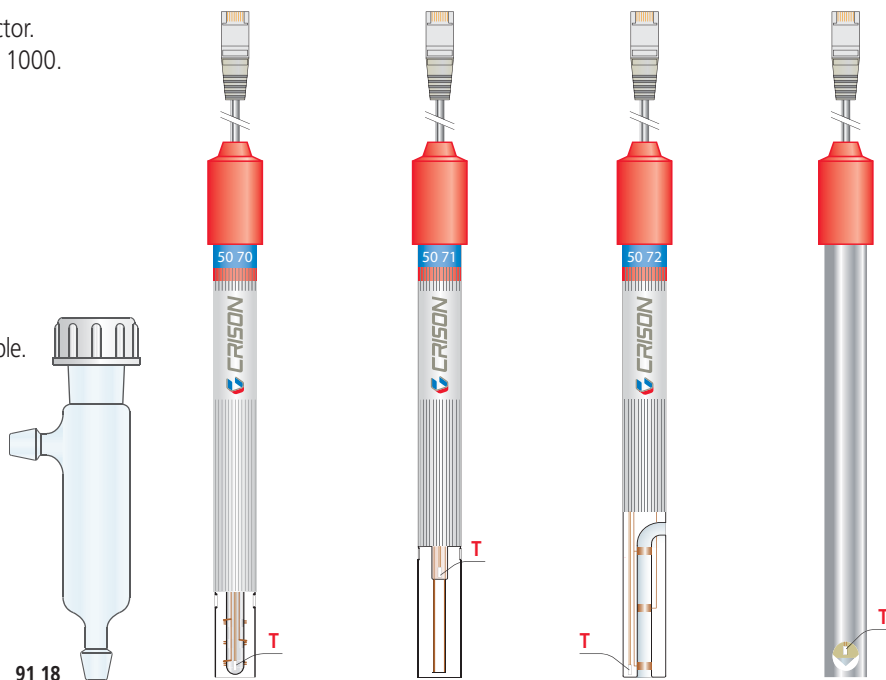
50 70, universal.

50 71, for low conductivities.

50 72, for high conductivities.

50 73, for dirty or viscous samples.
Easy cleaning, very robust, unbreakable.

91 18, Continuous flow chamber
for ultrapure water measurements.



T= temperature sensor

| Code | 50 70 | 50 71 | 50 72 | 50 73 |
|--|------------------|------------------|------------------|----------------|
| Measuring range (μ S/cm) | 0.2 ... 200.000 | 0.05 ... 30.000 | 100 ... 500.000 | 100 ... 50.000 |
| Temperature range (°C) | -30 ... 85 | -30 ... 85 | -30 ... 85 | 0 ... 85 |
| Approximate constant (cm ⁻¹) | 0.7 | 0.1 | 10 | 0.3 |
| Materials | Glass / platinum | Glass / platinum | Glass / platinum | Titanium |