

PC 7+ DHS

pH - mV/ORP - COND - TDS - Temperature

PC 70+ DHS

pH - mV/ORP - COND - TDS - Salinity - Temperature - GLP
USB Data Logger - Power supply and battery



DHS Digital **H**igh **S**ensor
Intelligent Sensors Management

X5 *makes pH and Conductivity easy*

DHS Digital High Sensor

Intelligent sensors management

Digital High Sensors are the new pH sensors with internal chips that store parameters, date of last calibration, model and production batch of the electrode. In the instruments PC 7+ DHS and PC 70+ DHS, is inserted a special chip with the same technology. After connecting the pH DHS sensor to the instrument, all the data stored in the sensor chip are automatically transferred to the instrument. The display will show sequentially: DHS, sensor model, production batch, date of the last calibration and slope.

After a new calibration of the DHS electrode, the data is automatically stored in the electrode chip. If we move this electrode to another DHS-enabled instrument, we can start working immediately and with extreme security as the data from the last calibration will automatically be transferred and used for pH measurements.

New DHS pH sensors do not have an internal battery so they can be stored as a normal pH electrode and do not use special connectors but a normal BNC.

Many manufacturers using digital sensors have developed dedicated meters for these sensors. This imposes a full range of digital sensors for a variety of applications or lab requirements. Our research and development team has designed this new line of instruments to work with the new DHS digital sensors and the normal analog pH sensors both, all brands, which can be connected to the same pH meter. From now on, the pH measurement will be simpler.

PC 7+ DHS

pH - mV/ORP - COND - TDS
Temperature

PC 70+ DHS

pH - mV/ORP - COND - TDS - Salinity
Temperature - GLP
USB Data Logger



An elegant and ergonomic IP 57 watertight container, with a soft shell, encloses the best of electronics, and a large bright display (backlight 3 colors for PC 70+ DHS) with all the information of the measure, electrode status and instruments memory. Only 4 buttons for PC 7+ DHS (6 for PC 70+ DHS) allows to manage all features in a simple and intuitive way.

A practical USB standard output (PC 70+ DHS), properly protected to ensure watertightness, allows you to download data from memory with the date of the last calibration performed, and to power the instrument with a USB socket on a computer or with its supplied 220V / USB power supply.

All functional parameters of the connected electrode during measurements, or during calibration, are constantly monitored and reported to the operator.



Sensor connections

Accessories and spare parts

	Code	Description	
	32200103	Digital pH electrode mod 201 T DHS with integrated temperature sensor for PC 7+ DHS and PC 70+ DHS, cable length 1 m and BNC	BNC/RCA-Cinch
	32200123	Digital pH electrode Standard T - BNC DHS glass body, cable fix, pH 0...14, Temp -10...100 °C, filling KCl 3M, integrated temperature sensor for general application	BNC/RCA-Cinch
	50002002	pH electrode mod 201 T with integrated temperature sensor for PC 7+ DHS and PC 70+ DHS, cable length 1 m and BNC	BNC/RCA-Cinch
	50002022	pH electrode mod 201 T/5 with integrated temperature sensor for PC 7+ DHS and PC 70+ DHS, cable length 5 m and BNC	BNC/RCA-Cinch
	32105302	Redox electrode for PC 7+DHS and PC 70+DHS, cable length 1 m and BNC	BNC
	32200473	Standard T-BNC pH electrode with temperature sensor integrated for PC 7+ DHS and PC 70+ DHS	BNC/RCA-Cinch
	50004002	COND Cell mod 2301 T with temperature sensor integrated, C=1,0, measuring range 10 µS...100 mS, cable length 1 m	BNC/RCA-Cinch
	50004022	COND Cell mod 2301 T/5 with temperature sensor integrated, C=1,0, measuring range 10 µS...100 mS, cable length 5 m	BNC/RCA-Cinch
	50004072	Cell VPT 80/10 with temperature sensor integrated, C=10, measuring range 100 µS...200 mS, cable length 1 m	BNC/RCA-Cinch
	50004012	Cell VPT 51/01 with temperature sensor integrated, C=0,1, measuring range 0,1 µS...1 mS, cable length 1 m	BNC/RCA-Cinch
	50000132	ST 10 magnetic stirrer adjustable speed with rechargeable batteries and power supply	
	50002012	NT 55 temperature probe for PC 7+ DHS and PC 70+ DHS	RCA-Cinch
	50010172	Power supply 5V/ 220V AC for PC 7+ DHS and PC 70+ DHS	
	50000112	Electrode holder with flexible arm and base	
	33551733	S7 cable with BNC plug diam. 3 mm, length 1 m	



Complete carrying case with accessories, useful for use as a portable laboratory



3 holes field support for electrodes



Stand for use on desk (optional) and stirrer ST 10



USB output for data and power supply via PC or main power supply supplied as standard (PC 70+ DHS)

Main features

- Simultaneous display pH / mV / Conductivity / TDS / °C
- Selectable parameters

pH:

- Selectable resolution: 0,1/0,01 pH.
- Automatic 1 to 3 points calibration between two families of buffer solutions (USA and NIST).
- Manual 2 points calibration with user-defined buffers.
- Setting the Low-Med-High (Stability) parameters for a more accurate or fast measurement.

Conductivity:

- Automatic calibration from 1 to 4 points selectable from 4 conductivity standard buffers.
- 1 Manual point calibration with user-defined buffer.
- Automatic and manual temperature compensation with selectable reference value from 15...30 °C.
- Large display (colored backlight for PC 70+ DHS) with indication of the buffer solutions used for calibration, and stability of the measurement.

- Memory recall of the last calibration with electrode state (date and time only on PC 70+ DHS).
- Container with protection IP 57.
- Solid carrying case with all accessories to be used as a portable laboratory.

...only on PC 70+ DHS

- Salinity
- GLP
- CAL TIMER: Setting the calibration frequency for a better quality of your measurements.
- Manual and automatic data logger with memory / recall up to 500 measurements with date, time.
- USB output for data download and power supply, via PC or mains power supply supplied as standard.
- Software DataLink 70 for PC data management freely downloadable.

PC 7+ DHS and PC 70+ DHS Display

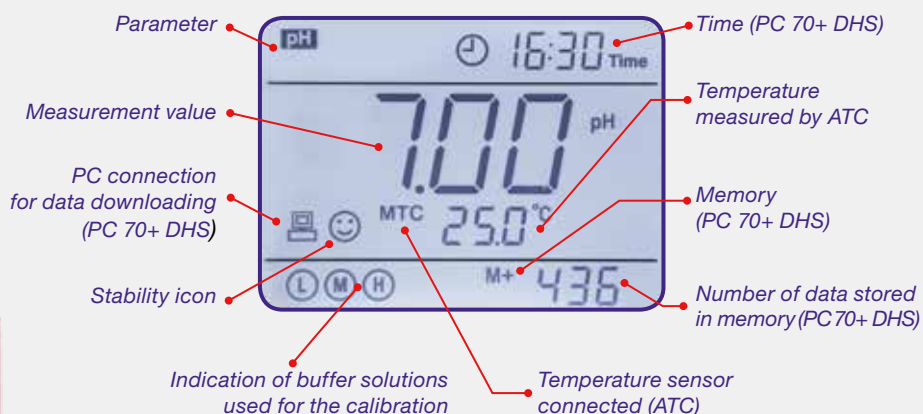
Measure mode



Calibration mode



Alarm



Datasheet

PC 7+ DHS

PC 70+ DHS

pH measuring range	0,00...14,00 pH	-2,00...16,00 pH
Resolution	0,1/0,01 pH	0,1/0,01 pH
Calibration points	1, 2 or 3	
Buffers recognized	USA: 1,68 - 4,01 - 7,00 - 10,01 pH NIST: 1,68 - 4,01 - 6,86 - 9,18 pH 2 points defined by the user	
Indication of calibration data	Yes (slope)	Yes (slope) with date and time
GLP	—	Yes
Criteria of measurement stability	Yes	Yes
Calibration timer	—	Yes
Indication of calibration points	Yes	Yes
mV measuring range	± 1.000 mV	-1.000 ...+1.900 mV
Resolution	1 mV	0,1 mV (± 200 mV) / 1mV (outside)
COND measuring range	0,00...20,00-200,0-2000 µS/2,000-20,00-200,0 mS	
Resolution	0,01/0,1/1 µS 0,01/0,1 mS	
Relative accuracy	±2% f.s.	
Calibration points	1...4	
Buffers recognized	84 µS – 1413 µS – 12,88mS – 111,9 mS and 1 point defined by the user	
Cell constant	0,1 – 1 – 10 cm ⁻¹	
Temperature coefficient	0,00...10,00 %/°C	
Reference temperature	15...30 °C	
GLP	—	Yes
Calibration timer	—	Yes
Indication of calibration points	Yes	Yes
TDS measuring range	0...100 g/L	
Resolution	1% f.s.	
TDS Factor	0,4...1,0	
Salinity measuring range	—	0...50 ppt
Temperature measuring range	0...100,0 °C	-10...110 °C
Resolution / Accuracy	0,1 °C / ± 0,5 °C	
pH temperature compensation	Automatic/manual 0...100 °C	
Conductivity temperature compensation	Automatic/manual 0...80 °C	Automatic/manual 0...100 °C
System: GLP	—	Yes
Memory	—	Man/ Auto 500 data with date and time
Autopower off	After 20 minutes	
Display	LCD (Liquid Crystal Display)	Backlight 3 colors LCD
Input	2 BNC and 1 RCA / CINCH (CAT)	2 BNC, 1 RCA / CINCH (CAT), USB (PC),
Power supply	3 x 1,5V batteries AA	3 x 1,5V batteries AA Power adapter AC/DC with USB cable
Battery life	> 300 hours	
IP Protection	Waterproof IP 57	
Dimension / instrument weight	86 x 196 x 33 mm / 295 g	86 x 196 x 33 mm / 300 g
Dimension / carrying case weight	385 x 300 x 115 mm / 1720 g	385 x 300 x 115 mm / 1725 g



pH
pH 7+ DHS - pH 70+ DHS



Conductivity
COND 7+ - COND 70+



Certificated buffer
solutions

How to order PC 7+ DHS

Code	Description
50010602	PC 7+ DHS complete kit includes digital electrode pH 201T DHS and conductivity cell 2301T with ATC, cable lenght 1m and BNC plug both
50010712	PC 7+ DHS complete kit includes electrode pH 201T and conductivity cell 2301T with ATC, cable lenght 1m and BNC plug both
50010722	PC 7+ DHS without pH electrode, includes conductivity cell 2301T with ATC, S7/ BNC cable, temperature probe NT 55

How to order PC 70+ DHS

Code	Description
50010872	PC 70+ DHS complete kit includes digital electrode pH 201T DHS and conductivity cell 2301T with ATC, cable lenght 1m and BNC plug both, power supply, USB cable
50010812	PC 70+ DHS complete kit includes electrode pH 201T and conductivity cell 2301T with ATC, cable lenght 1m and BNC plug both, power supply, USB cable
50010822	PC 70+ DHS without pH electrode, includes conductivity cell 2301T with ATC, S7/ BNC cable, temperature probe NT 55, power supply, USB cable

Always provided

Colored pH buffer solutions and standard conductivity, 3-holes field electrodes support, carrying case and accessories.

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