

PC 52+ DHS

pH- mV- COND - TDS - Temperature

PC 62 DHS

pH - mV - COND - TDS - Salinity - Temperature

GLP - USB Data Logger - RS232 printer



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

XS *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 52+ DHS and PC 62 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 52+ DHS

pH - mV - COND - TDS - Temperature

An elegant and ergonomic container encloses the best of electronics. A large backlight display (3 colors for PC 62 DHS) with all measurement informations, calibration buffers, the stability of the measurement, and the state of the electrode.

All the functional parameters of the sensors connected, during the measurements or during the calibration, are constantly monitored and, in case of errors, reported to the operator.

Only 4 keys (6 keys for PC 62 DHS) allows to manage all functions in a simple and intuitive way.

The instrument comes with its 5VDC / 220VAC power adapter.



PC 52+ DHS



PC 52+ DHS and PC 62 DHS Display

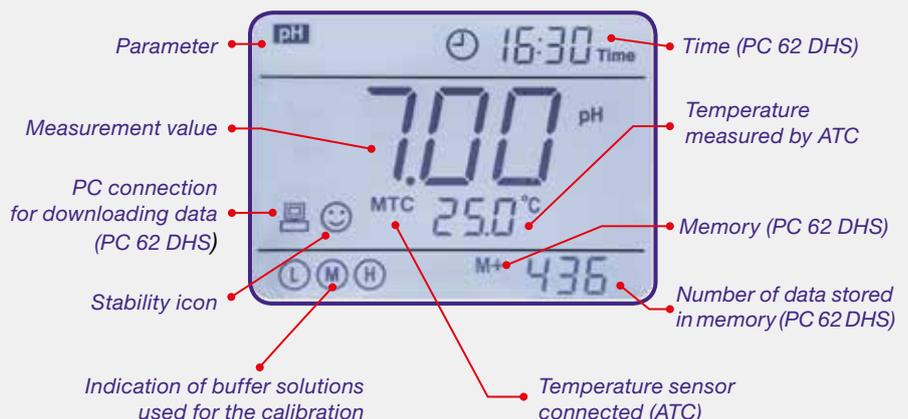
Measure mode



Calibration mode



Alarm



PC 62 DHS

pH - mV - COND - TDS - Salinity - Temperature - GLP
USB Data Logger - RS232 printer



Main features

- Simultaneous display pH / mV / Conductivity / TDS / °C.
- Memory recall of the last calibration with electrode state (date and time only on PC 62 DHS)
- 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.



Back panel PC 62 DHS



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.

...only on PC 62 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 port for PC connection software Data Link 70 freely downloadable.
- RS232 port for printer.

How to order PC 52+ DHS

Code	Description
50003892	PC 52+ DHS complete kit includes digital pH electrode 201T DHS with temperature sensor, conductivity cell 2301T with ATC, 1m cable and BNC plug both, electrode holder, colored buffer solutions pH 7 and pH 4, conductivity standards 1413 µS and 12,88 mS and 5V/220V AC power supply.
50003902	PC 52+ DHS complete kit includes pH electrode 201T with temperature sensor, conductivity cell 2301T with ATC, 1m cable and BNC plug both, electrode holder, colored buffer solutions pH 7 and pH 4, conductivity standards 1413 µS and 12,88 mS and 5V/220V AC power supply.
50003912	PC 52+ DHS without pH electrode. Includes cable S7/BNC, temperature probe NT55, con conductivity cell 2301T with ATC 1m cable with BNC, electrode holder, colored buffer solutions pH 7 and pH 4, conductivity standards 1413 µS and 12,88 mS and 5V/220V AC power supply.

How to order PC 62 DHS

Code	Description
50003942	PC 62 DHS complete kit includes digital pH electrode 201T DHS with temperature sensor, conductivity cell 2301T with ATC, 1m cable and BNC plug both, electrode holder, colored buffer solutions pH 7 and pH 4, conductivity standards 1413 µS and 12,88 mS and 5V/220V AC power supply.
50003952	PC 62 DHS complete kit includes pH electrode 201T with temperature sensor, conductivity cell 2301T with ATC, 1m cable and BNC plug both, electrode holder, colored buffer solutions pH 7 and pH 4, conductivity standards 1413 µS and 12,88 mS and 5V/220V AC power supply.
50003972	PC 62 DHS without pH electrode. Includes cable S7/BNC, temperature probe NT55, con conductivity cell 2301T with ATC 1m cable with BNC, electrode holder, colored buffer solutions pH 7 and pH 4, conductivity standards 1413 µS and 12,88 mS and 5V/220V AC power supply.



Conductivity cell
VPT 51/01
for ultrapure water

Datasheet

	PC 52 + DHS	PC 62 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 data 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
Display	Backlight LCD	3 colors Backlight LCD
Input	2 BNC and 2 RCA / CINCH (CAT)	2 BNC, 2 RCA / CINCH (CAT), USB (PC), RS232 (printer)
Power supply	5 V DC / 220 V	
IP protection	IP 54	
Dimensions / weight	160 x 185 x 70 (A) mm / 550 g	



pH 60 DHS



COND 61



RS232 printer



ST 10 magnetic stirrer

Accessories and spare parts

	Code	Description	
	32200103	Digital pH electrode mod 201 T DHS with integrated temperature sensor for PC 52+ DHS and PC 62 DHS, cable lenght 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 52+ DHS and PC 62 DHS, cable lenght 1 m and BNC	BNC/RCA-Cinch
	32105302	Redox electrode for PC 52+ DHS and PC 62 DHS, cable lenght 1 m and BNC	BNC
	32200473	Standard T-BNC pH electrode with temperature sensor integrated for PC 52+ DHS and PC 62 DHS	BNC/RCA-Cinch
	50004002	COND Cell mod 2301 T with temperture sensor integrated, C=1,0, measuring range 10 µS...100 mS, cable lenght 1 m	BNC/RCA-Cinch
	50004072	Cell VPT 80/10 with temperture sensor integrated, C=10, measuring range 100 µS...200 mS, cable lenght 1 m	BNC/RCA-Cinch
	50004012	Cell VPT 51/01 with temperture sensor integrated, C=0,1, measuring range 0,1 µS...1 mS, cable lenght 1 m	BNC/RCA-Cinch
	50001502	RS232 Printer, normal paper for PC 62 DHS, with RS232 cable and power supply	
	50000132	ST 10 magnetic stirrer adjustable speed with rechargeable batteries and power supply	
	50002012	NT 55 temperature probe for PC 52+ DHS and PC 62 DHS	RCA-Cinch
	50011052	Power supply 5V/ 220V AC for PC 52+ DHS and PC 62 DHS	
	50000112	Electrode holder with flexible arm and base	
	33551733	Cable S7 and BNC plug, diameter 3 mm, lenght 1 m	BNC

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