

# MODEL pH7 / pH70

## pH – mV/ORP – Temperature



### DHS Digital High Sensor

Digital High Sensors are the new pH sensors with internal chip that store parameters, date of last calibration, model and production batch of the electrode. In the instruments pH7+ DHS and pH 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.

#### MAIN FEATURES

- Management of analog and digital pH sensors with DHS technology.
- Wide display for simultaneous display of pH/mV and temperature, buffer solutions used in calibration and measurement stability.
- 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.

#### ...only on pH 70+ DHS

- 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 and time.
- USB output for data download and power supply, via PC or main power supply supplied as standard.
- Software DataLink 70 for PC data management freely downloadable.

An elegant and ergonomic container encloses the best of elec:  
 A large 3-color backlight display for pH 70+ DHS with all me:  
 informations, calibration solutions, measurement stab  
 electrode status.

All the functional parameters of the sensor connected c  
 measurements, or during the calibration, are constantly moni  
 in case of errors, reported to the operator.

Only 4 keys (6 keys for pH 70+ DHS) allows to manage all fun  
 simple and intuitive way.



### pH 7+ DHS and pH 70+ DHS Display

The diagram illustrates the display layout for different modes and data points:

- Measure mode:** Shows a large pH value (7.00), temperature (25.0°C), and memory count (436).
- Calibration mode:** Shows the pH value (7.00), temperature (25.0°C), and memory count (436).
- Alarm mode:** Shows the pH value (7.00), temperature (25.0°C), and memory count (436).
- Main Display Labels:**
  - Parameter:** 'pH' indicator.
  - Measurement value:** Large '7.00' pH reading.
  - PC connection for data downloading (pH 70+ DHS):** USB icon.
  - Stability icon:** 'L', 'M', 'H' icons.
  - Indication of buffer solutions used for the calibration:** 'MTC' and 'M+' indicators.
  - Temperature sensor connected (ATC):** '25.0°C' reading.
  - Time (pH 70+ DHS):** '16:30 Time'.
  - Temperature measured by ATC:** '25.0°C'.
  - Memory (pH 70+ DHS):** '436'.
  - Number of data stored in memory (pH 70+ DHS):** '436'.



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

TECHNICAL SPECIFICATIONS	pH 7 + DHS	pH 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 – 7.86 – 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 meas stability:	Yes	Yes
Calibration timer:	-	Yes
Indication of calibration points:	Yes	Yes
mV measuring range:	± 1000 mV	-1000...+1900 mV
Resolution:	1 mV	0.1 mV (± 200 mV) / 1 mV outside
Temperature measuring range:	0...100.0°C	-10...110°C
Resolution / accuracy:	0.1°C / ± 0.5°C	0.1°C / ± 0.5°C
Temperature compensation:	Automatic / manual 0...100°C	
System GLP:	-	Yes
Memory:	-	Man / Auto 500 data with date and time
Auto power off	After 20 minutes	
Display:	LCD (Liquid Crystal Display)	3 colors Backlight LCD
Input:	BNC and RCA / CINCH (CAT)	BNC and RCA / CINCH (CAT) and USB
Power supply:	3 x 1.5V batteries AA	3 x 1.5V batteries AA Power adapter AC/DC with USB cable
Battery life:	> 500 hours	
IP Protection:	Waterproof IP57	
Dimensions / weight - instrument:	86 x 196 x 33 mm / 295 g	86 x 196 x 33 mm / 300 g
Dimensions / weight – carrying case:	385 x 300 x 115 mm / 1720 g	385 x 300 x 115 mm / 1725 g

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