



Sant Roc 30 08340 VILASSAR DE MAR (Barcelona) Tel 902 404 748 - 937 591 484 Fax 937 591 547 e-mail: <u>crn@crntp.com</u> http:// www.crntp.com



PORTABLE pHMETERS ELECTRODES AND ACCESSORIES

ORDER CODES

pH Electrodes

KP20: Combined pH electrode, gel-fi lled, with screw connector S7, body in Epoxy, Ag/AgCl sat. KCl. **KP30:** Combined pH electrode, cable 1m, gel-fi lled, body in Epoxy, Ag/AgCl sat. KCl.

KP60: Combined pH electrode, 1 diaphragm, gel-fi lled, with screw connector S7, body in glass, Ag/AgCl sat. KCl.

KP 61: Combined pH electrode, 3 diaphragms for milk, cream, etc. gel-fi lled, with screw connector S7, body in glass, Ag/AgCl sat. KCl.

KP 62: Combined pH electrode, 1 diaphragm for pure water, paints, etc. gel-fi lled, with screw connector S7, body in glass, Ag/AgCl sat. KCl.

KP 70: Combined pH electrode, micro diam. 6 x L=70mm, gel-fi lled, with screw connector S7, body in glass, Ag/AgCl sat. KCl.

KP 80: Combined pointed pH electrode, gel-fi lled, with screw connector S7, body in glass, Ag/AgCl sat. KCl. **CP:** Extension cable 1.5m with BNC connectors on one side and S7 on the other side for electrode without cable. **CE:** Screw connector S7 for pH electrode. **BNC** Female BNC for electrode extension.

ORP Electrodes

KP90: REDOX PLATINUM electrode, with screw connector S7, gel-fi lled, body in glass

Electrodes pH for portables instruments

ORDER CODES

pH Buffer solutions

HD8642: Buffer solution 4.01pH - 200cc. HD8672: Buffer solution 6.86pH - 200cc. HD8692: Buffer solution 9.18pH - 200cc.

Redox Buffer solutions

HDR220: Redox buffer solution 220mV 0.5 I.



| Model | Range °C | Internal Ref | Material | Electrolyte | | Aplication |
|-------|--------------|--------------|----------|-------------|--|-------------------------------|
| KP 20 | 0 + 80 °C | Ag/AgCl | Ероху. | Gel | 120 - 12 - 0 12 - 0 12 | General Use, Agriculture |
| KP 30 | 0 + 80 °C | Ag/AgCl | Epoxy. | Gel | 120 • • • • • • • • • • • • • | General Use, Agriculture |
| KP 60 | 0 . + 100 °C | Ag/AgCl | Vidrio | Gel | | Jellies |
| KP 61 | | | | | | Milk, cream |
| KP 62 | | | | | * D 12 | Water, paintings |
| KP 70 | 0 . + 100 °C | Ag/AgCl | Vidrio | Gel | | Laboratory Mini-electrodes |
| KP 80 | 0 . + 100 °C | Ag/AgCl | Vidrio | Gel | | Met and fish |
| KP 90 | 0 . + 100 °C | Ag/AgCl | Vidrio | Gel | | Redox Platinum |
| СР | BNC | - (6) | | | | Extensión cable |



CRN TECNOPART, S.A. Sant Roc 30 08340 VILASSAR DE MAR (Barcelona) Tel 902 404 748 - 937 591 484 Fax 937 591 547 e-mail: <u>crn@crntp.com</u> http:// www.crntp.com



pH AND mV SIMULATOR HD9609



ORDER CODES

HD 9609 K: Kit composed of the instrument HD 9609, adapter cables CP 9509BNC, CP 9509 T, carrying case **CP 9509BNC:** Adapter cable L = 1 mt, male BNC connector on both ends

CP 9509 T: Adapter cable L = 1 mt, BNC connector on only one end

CP9509S7: Adapter cable L = 1 mt, BNC wall connector one end, S7 male connector on the other end.

The simulator **HD 9609** is a portable instrument for checking and calibrating pH and mV measuring instruments. The characteristics of this instrument satisfy any checking and calibrating requirements for both portable and panel-mounted instruments; it may be used in laboratories, in industry or for checks in the fi eld. Despite its many functions, the instrument is simple to use: a large display, with dual indication, and a series of symbols allow it to be used even by unskilled personnel. The HD9609 sends to output in channel A the simulation of signals of an electrode for measuring pH, ORP, ISFET, in the range:

• 0 to 14 pH, with resolution 0.10 pH;

• ±1999 mV, with resolution 1 mV.

The user may choose between two output impedance values:

100 KΩ, low impedance;

• 1 G Ω , high impedance. The simulation of the electrode compensation temperature is manually programmed in the range from -20°C to +150°C, while the temperature is measured in degrees Celsius or Fahrenheit. The pH simulation values may be manually set as desired, in steps of 0.1 or 1 pH. The mV simulation values may be manually set as desired, in steps of 1 or 10 mV. The HD9609 is fed with an ordinary 9Vdc alkaline battery. The electronics are housed in a sturdy ABS case with ergonomic lines. In designing and making the instrument, each detail has been assessed and selected in order to provide an instrument with high performance and excellent long-term measurement stability.

TECHNICAL CHARACTERISTICS

pH simulation: 0÷14 pH pH resolution: 0.1 pH pH 20÷25°C: 0.002 pH accuracy Thermal drift: ±0.0005 pH/°C from -5°C to 20°C and from 25°C to 50° mV simulation : ±1999 mV mV resolution: mV mV accuracy: ±100 µV -199.9 ... +199.9: ±0.01 mV/°C Thermal drift mV scale: from -5 to 20°C and from 25 to 50°C mV thermal drift: -1999 ... +1999: ±0.05 mV/°C from -5 to 20°C and from 25 to 50°C 0÷10 Hz: 1µV peak/peak Noise Simulation of compensation temperature: -20 to 150°C (-4 to 302°F) Output impedance: 100 KΩ 1%, 1GΩ 5% (no leading load capacity) LCD 2 lines, 3 1/2 digits. Figure Display: height approx. 12.5 mm. pH, mV, °C, °F, HI imp., LO imp., 0.1 pH, 1 pH, 1 mV, 10 mV Symbols: Signals: LOU, ER1, CAL -5 to 50°C (23 to 122°F) Work temperature: Power supply: 9 Vdc alkaline battery. Low battery indication. Consumption (instrument only): 5 mA lit, 20 µA off about 200 hours Autonomy: Dimensions: 187 x 72 x 38 mm. Weight: 300 gr