

Benchtop meter pH-ORP-EC-TDS-Resistivity-Salinity and temperature mod. HI 5521-02

HI 5521 is part of the new family of bench instruments which, thanks to the numerous advanced functions and features, are able to satisfy all the needs of laboratories and research departments.

The main features include the large color graphic display (240 x 320 pixels) equipped with on-screen help, simultaneous display of graphics, language selection and user-customizable configuration.

The 5-point pH calibration allows you to choose between pre-set or user-memorable buffers and, thanks to the exclusive CAL CHECK™ system, the status of the electrode is always kept under control.

For conductivity analysis, HI 5521 allows measurements to be made in 6 different scales: pH, ORP, EC, resistivity, TDS and salinity. For EC analysis you can count on an extended scale from 0.001 $\mu\text{S} / \text{cm}$ to 1 S / cm, with automatic recognition of the type of probe used. Salinity measurements can be displayed as practical salinity, natural seawater or as a percentage scale.

Another key feature of this tool is the ability to perform the three stages of analysis required by the United States Pharmacopoeia for ultrapure water (USP) quality.

HI 5521 is equipped with USB and RS232 ports for PC connection and offers storage and GLP (Good Laboratory Practice) functions.

HI 5521 is supplied complete with:
pH electrode HI1131B,
EC / TDS probe HI76312,
HI7662-T temperature probe,
electrode calibration and charging solutions,
electrode holder stand,
transformer,
pipette,
quality certificates and instructions.



Technical data

Parameter	Value
PH scale:	from -2,000 to 20,000 pH
PH resolution:	0.1 pH; 0.01 pH; 0.001 pH
PH accuracy (at 20 ° C):	± 0.1 pH; ± 0.01 pH; ± 0.002 pH
PH calibration:	5-point automatic
PH calibration points:	up to 5 points with 8 stored standard values (pH 1.68; 3.00; 4.01; 6.86; 7.01; 9.18; 10.01; 12.45) plus 5 values that can be set by the user
Temperature Compensation:	Manual or automatic from -20.0 to 120.0 ° C / from -4.0 to 248.0 ° F
MV scale:	± 2000.0 mV
MV resolution:	0.1 mV
MV accuracy (at 20 ° C):	± 0.2 mV

Temperature scale:	-20.0 to 120.0 ° C / -4.0 to 248.0 ° F / 253.15 to 393.15K
Temperature resolution:	0.1 ° C / 0.1 ° F / 0.1K
Accuracy at 20 ° C temperature:	± 0.2 ° C / ± 0.4 ° F / ± 0.2K
EC scale:	from 0.000 to 9.999 µS / cm; from 10.00 to 99.99 µS / cm; from 100.0 to 999.9 µS / cm; from 1,000 to 9,999 mS / cm; from 10.00 to 99.99 mS / cm; from 100.0 to 1000.0 mS / cm
EC Resolution:	0.001 µS / cm; 0.01 µS / cm; 0.1 µS / cm; 0.001 mS / cm; 0.01 mS / cm; 0.1 mS / cm
EC accuracy (at 20 ° C):	± 1% of reading or ± 0.01 µS / cm whichever is greater
EC calibration:	automatic up to 4 points with 6 memorized values (84 µS / cm; 1413 µS / cm; 5.0 mS / cm; 12.88 mS / cm; 80.0 mS / cm; 111.8 mS / cm);
Temperature Coefficient:	settable from 0.00 to 10.00% / ° C
TDS scale:	from 0.000 to 9.999 ppm; from 10.00 to 99.99 ppm; from 100.0 to 999.9 ppm; from 1,000 to 9,999 ppt; from 10.00 to 99.99 ppt; 100.0 to 400.0 ppt
TDS Resolution:	0.001 ppm; 0.01 ppm; 0.1 ppm; 0.001 ppt; 0.01 ppt; 0.1 ppt
TDS accuracy (at 20 ° C):	± 1% of reading or ± 0.01 ppm whichever is greater
EC / TDS factor:	settable from 0.40 to 1.00
Resistivity scale:	from 1.0 to 99.9 Ohm • cm; from 100 to 999 Ohm • cm; from 1.00 to 9.99 kOhm • cm; from 10.0 to 99.9 kOhm • cm; from 100 to 999 kOhm • cm; from 1.00 to 9.99 MOhm • cm; from 10.0 to 100
Resistivity Resolution:	0.1 Ohm • cm; 1 Ohm • cm; 0.01 kOhm • cm; 0.1 kOhm • cm; 1 kOhm • cm; 0.01 MOhm • cm; 0.1 MOhm • cm
Resistivity Accuracy:	± 2% of reading or ± 1 Ohm • cm if greater
Salinity Scale:	%: from 0.0 to 400.0%; sea water scale: from 0.00 to 80.00 ppt; Practical Salinity: 0.01 to 42.00 PSU
Salinity Resolution:	0.01 psu for practical salinity; 0.01 ppt for sea water; 0.1% for percentage scale
Salinity Accuracy:	± 1% of reading
PH electrode:	HI 1131B rechargeable; glass body; 1m cable; BNC connector (included)
Conductivity Probe:	HI 76312 4-ring with internal temperature sensor (included)
Temperature probe:	HI 7662-T (included)
Memorization:	Automatic or sample
Sample storage:	100 lots with 10,000 samples per lot
Automatic storage:	100 lots with 10,000 samples per lot
PC connection:	USB / RS232
Diet:	12 Vdc with 230Vac adapter
Terms of use:	from 0 to 50 ° C; RH max 95%
Dimensions and weight:	160 x 231 x 94 mm / 1200 g

Code	Description
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