testing water hardness, hard water tester

Model: APEX-JCX551

Standard:

Introduce: Water hardness tester is commonly used food lab equipment. Water hardness refers to the total concentration of calcium and magnesium ions in water sam...

Detailed product information

APEX-JCX551 Desktop Testing Water Hardness Tester
First, testing water hardness, hard water tester introduction
Water hardness tester is commonly used food lab equipment. Water hardness refers to the total concentration of calcium and magnesium ions in water samples , which is an important indicator of water quality. The instrument uses electrode test , the experiments show that it has the same accuracy and EDTA volumetric titration, and avoid many shortcomings EDTA titration , such as operational problems, determine the end point of uncertainty, and is not suitable for muddy and colored water samples used. This instrument is built-in microprocessor chip , in line with international GLP functional specification , and passed ISO9001: 2000 and CE certification , good looks , easy to use this instrument applies to universities , research institutes and industrial and mining enterprises laboratory use, for precision measuring water hardness. .
Second, testing water hardness, hard water tester characteristics:
Water hardness tester is commonly used food lab equipment.
1, using 601-F -type water hardness composite electrode , which consists of measuring electrode , Ag / AgCl reference electrode and temperature electrode combination , sensitive PVC membrane electrode measurements to new neutral carrier for the active substance , calcium water samples magnesium ion selective equal, has a novel structure , potential stability , fast response , easy to use features.
2, the electronic unit with intelligent chip design , with automatic calibration, automatic temperature compensation , data storage , RS232 output , measured , intelligent automatic locking function .
3 , choose five kinds of water hardness units : mmol / L, mg / L (CaCO3), mg / L (CaO), mmol / L (Boiler) and mg / L (Ca), the other three units fH (French degrees), dH (German degree) and eH (UK degrees) , you can choose to use the WH-Link communication software.
4 , prepare B1, B2 and B3 three kinds of calibration solutions .
5 , the configuration WH-Link communication software , the instrument test data uploaded to the PC.
Third, the testing water hardness, hard water tester technical parameters :
Water hardness tester is commonly used food lab equipment.
1 Measurement range :
(1) Water Hardness : 0 ~ 10 mmol / L
Equivalent to other units as follows:
0 ~ 1000 mg / L (CaCO3)
0 ~ 561 mg / L (CaO)
0 ~ 20 mmol / L (Boiler)
0 ~ 401 mg / L (Ca)
0 ~ 100 fH (French degrees)
0 ~ 56 dH (German degree)
0 ~ 70 eH (UK degrees)
Note : eH, dH, fH can choose to use the WH-Link communication software
(2) temperature : 0 ~ 60.0 ℃
Note: The temperature unit is ℃ and ℉, can set your own .
2 Resolution:
(a) Water Hardness: 0.01 and 0.1 units of water hardness
(b) Temperature : 0.1 ℃
3 Accuracy:
(1) Water Hardness : ≤ ± 5% FS
(2) Temperature : ≤ ± 0.5 ℃
4 automatic temperature compensation range :. 5 ~ 50 ℃
5 measurement storage capacity : 128 sets
6 in each store content: measured value number, measured values, measurement units , temperature , ATC or MTC state , date measurement, measurement time and calibration methods .
7 calibration solutions :
B1 calibration solutions - 2.00 × 10-2 mmol / L
B2 calibration solution - 2.00 × 10-1 mmol / L
B3 calibration solution - 2.00 mmol / L
Note : B3 calibration solution is also used as the active electrode soaking use
8 calibration mode:
The instrument uses two-point correction, and there are two correct ways to choose : B1, B2 correction or B2, B3 correction .
(1) B1, B2 calibration - calibration solution using B1 and B2 corrected calibration solution for <2.00 × 10-2 mmol low concentrations of water / L , such as boiler water .
(2) B2, B3 calibration - calibration solution using B2 and B3 calibration solution for correction, for general water quality.
9 Communication Interface :. RS232
10 Dimensions and weight :. 160 × 190 × 70 mm / 750 g
11 Power supply :. DC9V power adapter (AC220V ± 10%, 50/60HZ)
12 Power consumption :. ≤ 0.5W
13 . Instrument environmental working conditions
(1) Ambient temperature : 5 ~ 35 ℃
(2) Relative humidity : ≤ 85%