

ST Series Pen Meter Instruction Manual

Welcome to OHAUS (www.ohaus.com)!

After more than a century of perfecting the art of measurement through our durable weighing products, OHAUS precision is now available in a line of portable electrochemistry products that provides accurate measurement of pH, ORP, conductivity, TDS and salinity.

ST series pen meters are the economical option when you are simply looking for meters that are easy to use and provide accurate measurements.

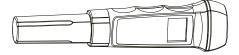
The pen meters should not be used by Children of age 12 or younger.

This product conforms to the EMC Directive 2004/108/EC. The Declaration of Conformity is available online at europe.ohaus.com/europe/en/home/support/compliance.aspx.

ST20C/ST20T/ST20S pen meters Instruction Manual

Thank you for choosing OHAUS waterproof pen meters. Please read the manual completely before use. This manual serves the following models:

- ST20C-A (pen Conductivity meter)
- ST20C-B (pen Conductivity meter)
- ST20C-C (pen Conductivity meter)
- ST20T-A (pen TDS meter)
- ST20T-B (pen TDS meter)
- ST20S (pen salinity meter)



First Usage

Condition the electrodes by rinsing and immersing it in pure water for 0.5 hour before use.

Conductivity/TDS/Salinity Measurement

Remove the protection cap, rinse the Conductivity electrode with pure water (distilled water), and wipe clean.

- Press button-On/Off turn on the meter.
- Dip the electrode about 2 to 3cm into the test solution (at least 20ml). Wait until the reading stabilized.
- Clean the electrode with pure water after eaach measurement.

Calibration

 $ST20C/ST20T/ST20S\ pen\ meters\ are\ factory\ calibrated, and\ does\ not\ need\ calibration\ in\ a\ few\ months.$

Be cautious to use this function when you are not familiar with conductivity pen.

• With the pen meter off press and hold the button-On/Off for more than 10 seconds. Let pen meter go into calibration mode, the display shows "CAL" and blinking.

• Dip the electrode into standard solution. Press button-up and button-down to adjust the displayed value same as Calibration Data as shown in the table below. When adjusting, "CAL" is not blinking. When displayed value equals the Calibration Data, press the button-On/Off to confirm the calibration.

146.6µS/cm

1413µS/cm

12.88mS/cm

• "CAL" will disappear after calibration, and pen meter goes is into measurement mode.

Standard Solution Concentration | Calibration Data

Calibration display of ST20C-B or ST20T-B								



Order Information

Model	Description
	Description
ST20C-A	Pen Conductivity Meter, range 0.0~199.9 μS/cm
ST20C-B	Pen Conductivity Meter, range 0~1999 μS/cm
ST20C-C	Pen Conductivity Meter, range 0.00~19.99 mS/cm
ST20T-A	Pen TDS Meter with temperature, range 0.0-100.0 mg/L
ST20T-B	Pen TDS Meter with temperature, range 0-1000 mg/L
ST20S	Pen Salinity Meter with temperature, range 0.0-10.0 ppt

ST20S 5% NaCl Maintenance

Model

Clean the electrode after test and cover the protection cap, be sure storage solution is not dry in the cap. Harsh samples may short the pen meter life time, such as sticky, dirty or oily liquids.

The meter use button battery 1.5V (AA)*4, replace all the batteries when the display fade or not turn on.





146.6μS/cm (73.3 mg/L)

1413μS/cm (706 mg/L)







The electrode is replaceable.

ST20C-A 0.001mol/L KCI

ST20C-B 0.01mol/L KCl

ST20T-A 0.001mol/L KCI ST20T-B 0.01mol/L KCI

ST20C-C 0.1mol/L KCl



Replaceable electrodes:

	Electrode CT20A ST
	Electrode CT20B ST
	Electrode CS20C ST
п	

Specification

Water Proof Pen Meters	ST20C-A	ST20C-B	ST20C-C	ST20T-A	ST20T-B	ST20S
Cond. range	0.0~199.9 μS/cm	0~1999 μS/cm	0.00~19.99 mS/cm	0.0-100.0 mg/L	0-1000 mg/L	0.0-80.0 ppt
Resolution	0.1 μS/cm	1 μS/cm	10 μS/cm (0.01 mS/cm)	0.1 mg/L	1 mg/L	0.1 ppt
Accuracy	±1.5% FS					
Temperature	0.0~99.9 ℃	0.0~99.9 ℃	0.0~99.9 ℃	0.0~99.9 ℃	0.0~99.9 ℃	0.0~99.9 ℃
Battery	4 x 1.5V					
Dimension	185x42x37mm	185x42x37mm	185x42x37mm	185x42x37mm	185x42x37mm	185x42x37mm
Weight	105g	105g	105g	105g	105g	105g
Auto-off	After 6 min no operation					
Ambient temperature	0~50 °C(32-122°F)					
Materials	ABS	ABS	ABS	ABS	ABS	ABS