



ST 20D Pen DO Meter Instruction Manual

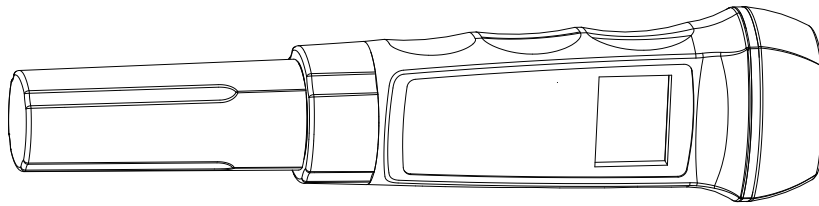
Welcome to OHAUS!

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 DO, 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.

Thank you for choosing OHAUS waterproof pen Dissolved Oxygen meter ST20D. Please read the manual completely before use.



First Usage

Take off the membrane part by turning it, fill the electrolyte, then put on the membrane. Warm up the DO pen meter by turning it on. The meter will turn off automatically after 10 minutes.

Calibration and measurement

After warm up, turn on the meter. Put the ST20D in the air and press button "Cal";

The meter display will show a blinking "100", the meter is now calibrating 100% DO value. After 3 to 5 minutes when the blinking has stopped, press button "Hold/Enter" to finish 100% DO calibration.

There are now two options:

1. Press button "Hold/Enter" to finish 1 point calibration and exit to measurement interface.

Note: Ohaus suggest to only do 1 point (100%) calibration for ST20D. There is no need to perform 2 point (0%) calibration unless the sample DO value is too low (e.g. <1 mg/L).

2. Put the ST20D into the Zero-Oxygen solution. Press button "Cal" to do the 0% point calibration, LCD will show a blinking "0". After about 3 minutes, when the blinking has stopped, press button "Hold/Enter" to finish 0% calibration.

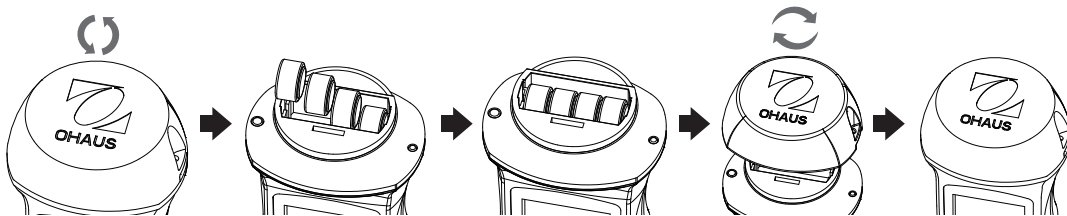
Zero-Oxygen solution is saturated Na_2SO_3 (CAS NO 7757-83-7) solution. Ohaus provides DO zero-oxygen chemical (30059257).

After calibration, rinse the pen DO tip. The sample can now be measured.

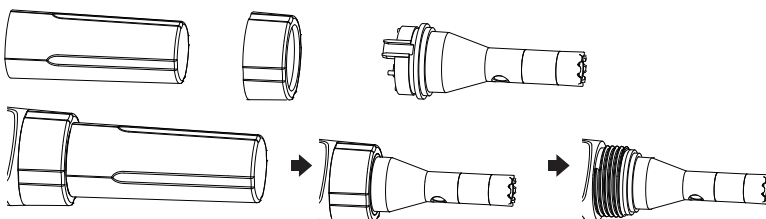
Maintenance and Storage

After usage, take off the membrane, rinse the electrode and membrane, dry them and put the membrane back on. Store the meter.

Harsh samples, such as sticky, dirty or oily liquids, may shorten the pen meters life time, .



The electrode is replaceable.

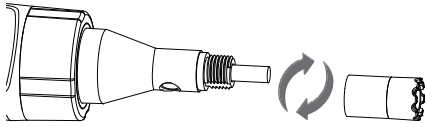


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The membrane part is replaceable.



◆ **Order Information**

Model	Description	Item NO.
ST20D	Polarographic waterproof pen DO meter	30073986

◆ **Accessory:**

30022083	Replaceable Electrode for ST20D
30022084	Membrane part with electrolyte for ST20D
30059257	DO Zero Oxygen Chemical

◆ **Specification**

Waterproof Pen DO Meter	ST20D
Measurement range	0.0 – 19.9 mg/L
Resolution	0.1 mg/L
Accuracy	± 0.5 mg/L
Battery	4 x 1.5V
Dimension	183×45×35mm
Weight	90g
Auto-off	After 10 min no operation
Ambient temperature	5~45 °C(41-122°F)
Materials	ABS



In conformance with the European Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE) this device may not be disposed of in domestic waste. This also applies to countries outside the EU, per their specific requirements. Please dispose of this product in accordance with local regulations at the collecting point specified for electrical and electronic equipment. If you have any questions, please contact the responsible authority or the distributor from which you purchased this device. Should this device be passed on to other parties (for private or professional use), the content of this regulation must also be related. Thank you for your contribution to environmental protection.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna, increase the separation between the equipment and receiver or consult the dealer or an experienced radio/TV technician for help.