

English**QuickStart**

Multifunctional instrument for pH/ORP electrodes and DX - digital sensors

PRO 595

This QuickStart guide contains a brief overview of the device operating and safety information. Before operating the device, carefully read and understand the full operating manual, including the complete list of safety instructions, downloadable at the following link:

<https://www.senseca.com>



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INFORMATION AND SAFETY

Read this document carefully and familiarize yourself with the operation of the device before using it. Keep this document ready to hand and in the immediate vicinity of the device so that it is always available to the personnel/user in case of doubt.

Only technically qualified persons are permitted to carry out commissioning, operation, maintenance and decommissioning. The personnel must have carefully read and understood the operating manual before starting any activity.

Legal notices

- For your safety, use only the manufacturer's original spare parts and accessories. We assume no responsibility for the use of other products and any resulting damage.
- The user must have adequate knowledge of the measuring process and use of the measurements. The user is liable in case of damage/danger due to misinterpretation of the measurements as a result of inadequate knowledge.
- The liability and warranty of the manufacturer for product damages and consequential damages are voided in the event of misuse, failure to comply with these operating instructions, failure to observe safety warnings, assignment to inadequately qualified technical personnel and arbitrary modifications of the device.
- No part of this document may be reproduced, modified or translated without prior written permission of the product manufacturer. In case of ambiguity between different language versions of this document, the English version applies.
- This document does not create any legally binding obligations for the product manufacturer. All legally binding obligations are included only in the General Terms and Conditions of Sale.

Correctness of content

- This document was checked for corrected contents and is subject to a continuous updating process. This does not rule out potential errors. In the event that errors are discovered or in case of suggestions to make this document more user-friendly, please inform us via the contact information given in this document.
- We reserve the right to change the product specifications and the contents of this document without prior notice.

Explanation of symbols used



DANGER

Warning of danger that could result in death, serious bodily injury, or serious property damage if not observed.



CAUTION

Warning of potential danger or harmful situation that may cause damage to the device or the environment if not observed.



NOTE

Action that may have a direct effect on operation or may cause an unexpected behavior.

Safety information

Fault-free operation and operational safety of the device can only be guaranteed if the general safety requirements and the specific safety requirements in this document are observed.

Do not use the device in climatic conditions other than those specified in this document.

Do not use the device in places with:

- Rapid ambient temperature variations that may cause condensation.
- Direct vibrations / shocks to the device.
- High-intensity electromagnetic fields or static electricity.

Intended use

The device is a hand-held measuring device for pH/ORP measurement and for displaying measured values in conjunction with digital sensors from the DX series. Depending on the sensor used, a variety of measured variables can be measured, such as:

- dissolved oxygen, temperature, pressure, humidity, indoor air quality (IAQ), light quantities and much more.

Foreseeable misuse

If the following notices are disregarded, personal injury or death, as well as property damage can occur.



DANGER

- Do not use in safety / emergency stop devices!
- Not suitable for use in hazardous areas (Ex-environments)!
- Not suitable for diagnostic or other medical purposes on patients!
- Not suitable for SIL (Safety Integrity Level)!
- The device is not suitable for contact with food!
- Not suitable for children!
- Do not use as PPE (Personal Protection Equipment).



CAUTION

Do not use if:

- There is visible damage to the device.
- The device is not working as expected.
- The device has been stored under unsuitable conditions for an extended period.

On suspicion that the device can no longer be operated without danger, it must be decommissioned and prevented from recommissioning with appropriate labelling.

In case of doubt, send the device to the manufacturer for repair or maintenance.



DANGER

pH/ORP electrodes contain glass parts that can cause injuries when broken!

Inspect the electrode before and after measurement.

Measure in samples when measuring food and discard the sample after measurement.



CAUTION

Penetration probes entail the risk of **stab injuries** due to the pointed probe. Handle penetration probes with care and fit a protective cap on the probe tip when not in use!

There is a risk of burns when measuring in high (and very low) temperatures. Use gloves if necessary.



NOTE

Remove batteries to prevent leakage if the device is stored at a temperature above 50 °C or not used for an extended period of time.

Batteries



DANGER

- **Do not short-circuit the batteries, they may explode with serious risk to people!**
- Do not expose the batteries to high temperature!
- Do not throw the batteries into fire!



CAUTION

Disposal: Dispose the exhausted batteries in the appropriate bins or deliver them to authorized collection centers. Comply with current regulations.

Disposal

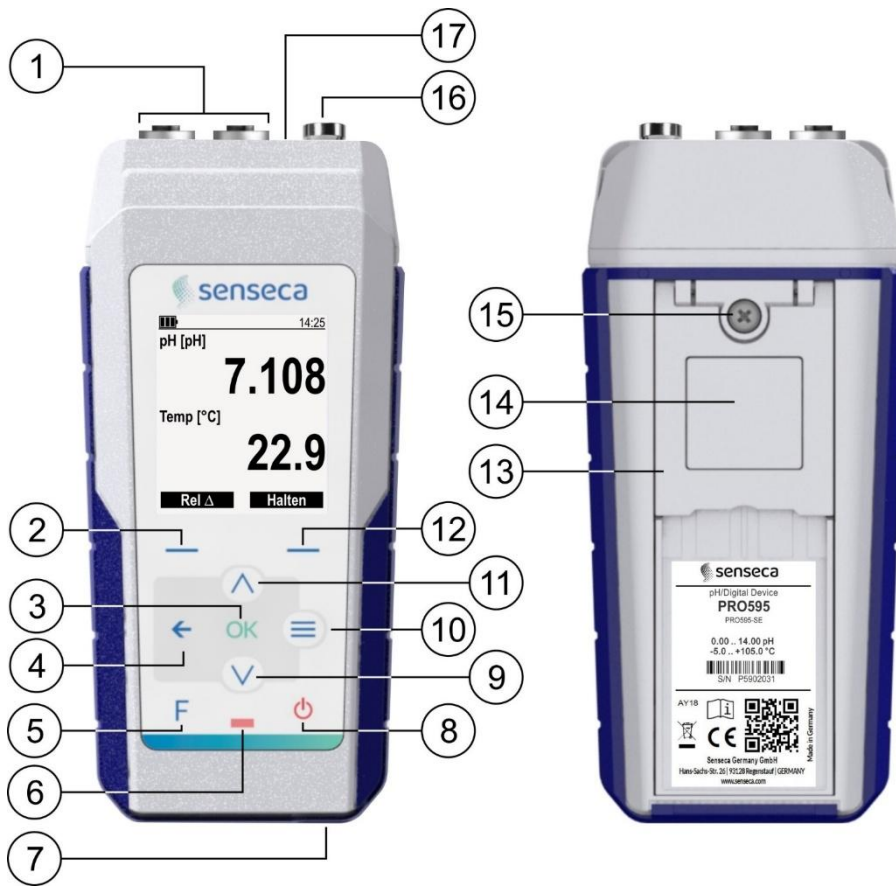
Separation by material and recycling of device components and packaging must take place at the time of disposal. The valid regional statutory regulations and directives applicable at the time must be observed.



Electrical and electronic equipment marked with specific symbol in compliance with 2012/19/EU Directive must be disposed of separately from household waste. European users can hand them over to the dealer or to the manufacturer when purchasing a new electrical and electronic equipment, or to a WEEE collection point designated by local authorities. Illegal disposal is punished by law.

Please note: Batteries must be removed beforehand and disposed of separately!

DESCRIPTION



1. Inputs for DX sensor
2. Left function key
3. **OK** key: confirms selection
4. **←** key: cycles through display modes or goes up one menu level
5. **F** key: favorites list
6. Status LED
7. USB-C port
8. **ON/OFF** key
9. **Down arrow** key: scrolls down a list or decreases a parameter value
10. **MENU** key
11. **Up arrow** key: scrolls up a list or increases a parameter value
12. Right function key
13. Foldable stand
14. Magnet
15. Battery compartment fixing screw
16. BNC input for pH/ORP electrode
17. Input for temperature sensor in electrode

| Display | Symbols in the status bar |
|---------|---|
| 18 | Battery charge level |
| 19 | Ext. power supply connected |
| 20 | cor Measurement correction applied |
| 21 | hld Hold function active |
| 22 | rec Logging in progress |
| | al. Measurement in alarm |
| | USB USB port connected to PC |
| | 14:25 Current time |

TECHNICAL SPECIFICATIONS

| | |
|----------------------|---|
| Input channels | 1 BNC connector for pH/ORP electrodes 1 4 mm banana connector for temperature sensor integrated in electrodes 2 5-pin M12 connector for DX digital probes |
| Measuring ranges | pH / ORP -2.000 ... +16.000 pH / -2000.0 ... +2000.0 mV Temperature -5.0 ... +150.0 °C (Pt1000) / -5.0...+105.0 °C (NTC10k/NTC30k) Digital probe Depending on used sensor |
| Accuracy | pH / ORP ±0.01 pH ±1 Digit / ±1 mV ±1 Digit Temperature ±0.2 °C ± 1 digit (Pt1000) |
| Power supply | 4 x AA NiMH rechargeable batteries / External 5 Vdc via USB C |
| Battery autonomy | > 100 h typ. (backlight off) |
| Operating conditions | -5 ... 50 °C / 0 ... 85 %RH non-condensing |
| Protection degree | IP 67 (except sensor connections) / IK 06 |
| Housing material | ABS, TPE (side protection), PET (front panel) |