

SevenDirect SD50 pH/Ion Meter

Straight to the Point



Diverse Applications

Measuring the concentration of ions beyond H⁺: unlock the full potential of the SD50 meter across various applications, from fluoride determination in dental products to calcium in ketchup. Easily switch back and forth with SevenDirect™ methods.



Verification for Accuracy

Confirm the accuracy of your calibration: automated verification is a simple procedure to check the performance of your measurement system with a known standard and works for both, pH and ISE measurement.



Precise Sensor Position

Simplified handling avoids spilling of sample: the perfectly vertical movement of the EasyPlace™ electrode arm prevents sensor damage and ensures precise positioning, also when using multiple sensors.



Stirring for Reliable Results

Homogenized samples for more accurate results: program the EasyMix™ magnetic stirrer for the desired behaviour as part of the measurement method, including stirring and waiting periods.



SevenDirect Advanced pH/Ion Meter Line

The Right Solution for Your Industry

pH, ORP and ion concentration measurements are common procedures in most laboratories and accurate results are often critical for safety and product quality. Developed for a wide range of applications, SevenDirect™ SD50 benchtop meters provide reliable measurements of almost any sample. Their ease of use, data handling options and robustness will delight discerning users.

No matter what industry—these features make a difference:

- 7" touchscreen with intuitive user interface
- uFocus mode for most important parameters
- StatusLight allowing for an easy readiness check
- Two-level user management to protect instrument settings
- Easy sample ID entry helps to keep track of results
- Optional EasyDirect™ software simplifies data handling
- IP54 protection against dust and spills

METTLER TOLEDO



General Specifications

Measurement parameters	Range	Resolution	Accuracy	Calibration methods	Calibration points
pH	-2.000...20.000	0.1/0.01/0.001	-0.002	Linear, Segmented	1 to 5
mV	-2,000.0...2,000.0 mV	1/0.1	±0.1 (-500.0...500.0 mV) ±0.2 (-2,000.0...2,000.0 mV)	-	-
Ions	mmol/L, mol/L, mg/L, ppm: 0...999,999 %: 0...100.000 pX: -2.000...20.000	mmol/L, mg/L, ppm: 0.001 mol/L, %: 0.0001 pX: 0.1/0.01	mmol/L, mol/L, mg/L, ppm, %: ±0.5% of measured value, pX: ±0.002	Linear, Segmented	1 to 5
Temperature	-30.0...130.0	0.1 °C	±0.1 °C	-	-

SevenDirect SD50 Kits Overview and General Accessories

Kit	Scope of Delivery	Material No.
Basic Instrument Kit	Instrument, power supply, protective cover, Get-Started-Guide, electrode holder EasyPlace™	30671550
	SD50, plus pH electrode InLab Expert Pro-ISM and 3 × 2 calibration buffer sachets (pH 4.01, 7.00 and 9.21 or 10.01)	30671554
F-ion Kit	SD50, plus PerfectION™ F sensor	30671555
HA Kit	SD50 Kit, with InLab Routine Pro-ISM instead of InLab Expert Pro-ISM	30671556
Organic Kit	SD50 Kit, with InLab Science Pro-ISM instead of InLab Expert Pro-ISM	30671557
Pure H ₂ O Kit	SD50 Kit, with InLab Pure Pro-ISM instead of InLab Expert Pro-ISM	30671558
Low Vol Kit	SD50 Kit, with InLab Micro Pro-ISM instead of InLab Expert Pro-ISM	30671561

General Accessories	Material No.
EasyPlace: Electrode arm (included in standard delivery)	30671569
Protective cover (included in standard delivery)	30671529
Barcode Scanner	30417466
Licence for EasyDirect™ pH software	30323214
USB A-B cable 1.8 m for EasyDirect™	51191926
EasyMix magnetic stirrer	30671570
Rainbow I pH buffers (3 × 10 sachets of 20 mL, 4.01/7.00/9.21)	51302068
Rainbow II pH buffers (3 × 10 sachets of 20 mL, 4.01/7.00/10.01)	51302080
Fluoride solution kit (TISAB III, Ion Electrolyte A, Fluoride ISE standard solution 1,000 mg/L)	30718583