

# SevenDirect™ Meters

## Straight to the Point



**Developed for a wide range of applications, SevenDirect benchtop meters provide accurate pH, ion concentration, and conductivity measurements of almost any sample. Their ease of use, data handling options and robustness will delight discerning users.**

**Mastered in No Time:** The intuitive user interface of the generous 7" touchscreen facilitates the measurement process by avoiding unnecessary steps and focusing on the most important information. On-screen instructions guide through the calibration process while the integrated help system provides immediate support. The EasyPlace™ electrode arm ensures precise placement of the sensor.

**Tracks Your Records:** The instruments support GLP compliance by storing timestamps, sample-, sensor- and user IDs with every

measurement. Settings are protected from unwanted changes by a two level user management. Automatic data transfer to PC or printer minimizes transcription errors. The guided verification process provides a straightforward way to check system performance with a clear pass/fail indication.

**Tough Enough:** The SevenDirect meters feature a closed connector compartment to prevent corrosion and a replacable protective cover to keep the instrument safe from dust and spills even with sensors attached (IP54 in-use).

# SevenDirect™ Meters

## The Right Solution for Your Industry

**Combine SevenDirect with the right electrode out of the comprehensive InLab® portfolio for a powerful measurement system to match the challenges of your industry. Use METTLER TOLEDO calibration standards and maintenance solutions to ensure reliable performance, and expand the system with our dedicated accessories. No matter the industry—SevenDirect has features that make a difference.**

### Food and Beverage

Automated limit checks support quick decisions in quality control:

- Set upper and lower limits for measurement value and temperature.
- Screen color indicates pass or fail.

### Chemicals

Extra protection for operators and equipment:

- Replaceable cover to protect against accidental spills.
- Glove mode for higher screen sensitivity.

### Cosmetics

Methods take care of various sample types:

- Quickly switch between methods with pre-set parameters.
- Ensure correct sensor usage with Intelligent Sensor Management (ISM®).

### Position Your Sensor Precisely



The EasyPlace™ electrode arm makes sensor handling easy. Dedicated positions for calibration, measurement, cleaning and storage simplify daily operation.

### Stirring for Reliable Results



The EasyMix™ magnetic stirrer homogenizes samples for more accurate results. Its perfect fit with the EasyPlace™ electrode arm saves bench space.

### Data Management under Control



The EasyDirect™ PC software simplifies data management. Collect data, generate reports and plots, export to a PC or print on a network printer.



## Meters and Measurement Specifications

	pH	mV	Cond	Ions	Temperature
SD20	•	•			•
SD30			•		•
SD50	•	•		•	•
SD23	•	•	•		•
Range	-2.000...20.000	-2,000.0...2,000.0 mV	Conductivity: 0.000 µS/cm...2,000 mS/cm TDS: 0.00 mg/L...1,000 g/L Salinity: 0.00...80.00 psu Resistivity: 0.00...100.0 MΩ*cm	mmol/L, mol/L, mg/L, ppm: 0...999,999 %: 0...100.000 pX: -2.000...20.000	-30.0...130.0 °C
Resolution	0.1/0.01/0.001	1/0.1	Auto-range, max. 0.001	mmol/L, mg/L, ppm: 0.001 mol/L, %: 0.0001 pX: 0.1/0.01	0.1 °C
Accuracy	±0.002	±0.1 (-500.0...500.0 mV) ±0.2 (-2,000.0...2,000.0 mV)	0.5% of measured value	mmol/L, mol/L, mg/L, ppm, %: ±0.5% of measured value, pX: ±0.002	±0.1 (0-100 °C)
Calibration methods	Linear, Segmented	-	Linear, Manual cell constant	Linear, Segmented	-
Calibration points	1 to 5	-	1 or 2	1 to 5	-

## Order Information

For an easy start, choose one of our ready-to-use kits which include the instrument, an application-specific sensor and calibration standards.

Instrument	Kit	Scope of Delivery	Material No.
pH Meter SevenDirect SD20	Basic Instrument	Instrument, power supply, protective cover, Get-Started-Guide, electrode holder EasyPlace™	30671550
	Kit	SD20, plus pH electrode InLab Expert Pro-ISM and 3 × 3 calibration buffer sachets (pH 4.01, 7.00 and 9.21 or 10.01)	30671554
	Stirrer Kit	SD20 Kit plus EasyMix magnetic stirrer	30671555
	HA Kit	SD20 Kit, with InLab Routine Pro-ISM instead of InLab Expert Pro-ISM	30671556
	Organic Kit	SD20 Kit, with InLab Science Pro-ISM instead of InLab Expert Pro-ISM	30671557
	Pure H <sub>2</sub> O Kit	SD20 Kit, with InLab Pure Pro-ISM instead of InLab Expert Pro-ISM	30671558
	Solids Kit	SD20 Kit, with InLab Solids Pro-ISM instead of InLab Expert Pro-ISM	30671559
	Viscous Kit	SD20 Kit, with InLab Viscous Pro-ISM instead of InLab Expert Pro-ISM	30671560
pH/Ion meter SevenDirect SD50	Low Vol Kit	SD20 Kit, with InLab Micro Pro-ISM instead of InLab Expert Pro-ISM	30671561
	Basic Instrument	Instrument, power supply, protective cover, Get-Started-Guide, electrode holder EasyPlace™	30671552
	Kit	SD50, plus pH electrode InLab Expert Pro-ISM and 3 × 3 calibration buffer sachets (pH 4.01, 7.00 and 9.21 or 10.01)	30671544
	F-ion Kit	SD50, plus PerfectION™ F sensor	30671545
	HA Kit	SD50 Kit, with InLab Routine Pro-ISM instead of InLab Expert Pro-ISM	30671546
	Organic Kit	SD50 Kit, with InLab Science Pro-ISM instead of InLab Expert Pro-ISM	30671547
	Pure H <sub>2</sub> O Kit	SD50 Kit, with InLab Pure Pro-ISM instead of InLab Expert Pro-ISM	30671548
Cond meter SevenDirect SD30	Low Vol Kit	SD50 Kit, with InLab Micro Pro-ISM instead of InLab Expert Pro-ISM	30671549
	Basic Instrument	Instrument, power supply, protective cover, Get-Started-Guide, electrode holder EasyPlace™	30671551
	Kit	SD30, plus conductivity sensor InLab 731-ISM and 2 × 2 conductivity standard sachets (1413 µS/cm and 12.88 mS/cm)	30671562
pH/Cond meter SevenDirect SD23	Pure H <sub>2</sub> O Kit	SD30 kit, with InLab 741-ISM instead of InLab 731-ISM and 2 conductivity standard sachets (84 µS/cm)	30671563
	Basic Instrument	Instrument, power supply, protective cover, Get-Started-Guide, electrode holder EasyPlace™ with holder for up to three sensors	30671553
	Kit	SD23, plus pH electrode InLab expert Pro-ISM, conductivity sensor InLab 731-ISM, 3 × 3 pH buffer (pH 4.01, 7.00 and 9.21 or 10.01) sachets and 2 × 2 conductivity standards (1413 µS/cm and 12.88 mS/cm)	30671567
	Pure H <sub>2</sub> O Kit	SD23, plus pH electrode InLab Pure Pro-ISM, conductivity sensor InLab 741-ISM, 3 × 3 pH buffer (pH 4.01, 7.00 and 9.21 or 10.01) sachets and 2 conductivity standards (84 µS/cm)	30671568

Description	Order No.
EasyPlace: Electrode arm (included in standard delivery)	30671569
Protective cover (included in standard delivery)	30671529
Power supply 18 W (included in standard delivery)	30671580
Barcode Scanner	30417466
Licence for EasyDirect™ pH software	30323214
USB A-B cable 1.8 m for EasyDirect™	51191926
EasyMix magnetic stirrer	30671570
ISM® cable 1.2 m, BNC/RCA-MultiPin™	30281896

pH Buffers	Order No.
pH 4.01 buffer solution in sachets, 30 × 20 mL	51302069
pH 7.00 buffer solution in sachets, 30 × 20 mL	51302047
pH 9.21 buffer solution in sachets, 30 × 20 mL	51302070
pH 10.01 buffer solution in sachets, 30 × 20 mL	51302079
Rainbow I (3 × 10 sachets of 20 mL, 4.01/7.00/9.21)	51302068
Rainbow II (3 × 10 sachets of 20 mL, 4.01/7.00/10.01)	51302080
Fluoride solution kit	30718583
84 µS/cm conductivity standard in sachets, 10 × 20 mL	30111140
1413 µS/cm conductivity standard in sachets, 30 × 20 mL	51302049
12.88 mS/cm conductivity standard in sachets, 30 × 20 mL	51302050