

# SensoDirect 150



- pH value
- Redox
- Oxygen (dissolved)
- Conductivity
- TDS
- Temperature (°C / °F)

## All in one Hand-held Meter

The SensoDirect 150 combines the features of several hand-held meters. It is designed for multi purpose operation and measures pH/Redox, dissolved oxygen and conductivity/TDS.

The SensoDirect 150 incorporates an intuitive user interface, large, easy to read display and is supplied with a sturdy handy case with electrodes, buffer solution and accessories.

## SensoDirect 150

## Conductivity/TDS/Temperature

<b>Display</b>	Large LCD display with contrast adjustment
<b>Parameter</b>	pH: 0 to 14.00 pH ORP: $\pm$ 1999 mV Conductivity: 200 $\mu$ S / 2 mS / 20 mS / 200 mS TDS (Total Dissolved Solids): Dissolved Oxygen: 0 to 20.0 mg/l
<b>Data Logger</b>	Real time data logger
<b>Data Memory</b>	Auto or manual data memory, 16000 data sets
<b>Data Hold</b>	Max, Min
<b>Interface</b>	USB, RS232
<b>Probes</b>	pH, ORP, Conductivity/TDS, Dissolved Oxygen and Temperature
<b>Power off</b>	Auto shut off or manual off
<b>Data Output</b>	RS 232 PC serial interface
<b>Power Supply</b>	DC 1,5 V battery ( UM3, AA) x 4 PCs or DC 9V adapter in
<b>Software</b>	Data acquisition software Data logger software
<b>Dimensions</b>	220 x 120 x 40 mm (L x B x H)
<b>Weight</b>	approx. 625 g (Instrument with batteries)
<b>CE-Conformity</b>	

## pH/Redox/Temperature

<b>Range</b>	pH 0 to 14 PH mV -1999 mV to 1999 mV
<b>Resolution</b>	0 - 14 pH, 0.01 pH 0 - 1999 mV, 1 mV
<b>Accuracy</b>	0 - 14 pH, $\pm$ 0.02 pH + 2 digits 0 - 1999 mV, $\pm$ 0.5 % + 2 digits
<b>Temperature Compensation</b>	manual 0 - 100 °C automatic (ATC)
<b>pH Calibration</b>	pH 7, pH 4, and pH10, 3 points calibration

## Dissolved Oxygen/Temperature

<b>Range</b>	Dissolved Oxygen 0 to 20.0 mg/l (liter) Oxygen in Air 0 to 100.0 % Temperature 0 to 50 °C
<b>Resolution</b>	Dissolved Oxygen 0.1 mg/l 0.1 % O <sub>2</sub> Temperature 0.1 °C
<b>Accuracy</b> (23 $\pm$ 5 °C)	Dissolved Oxygen $\pm$ 0.4 mg/l Oxygen in Air $\pm$ 0.7% O <sub>2</sub> Temperature $\pm$ 0.8 °C / 1.5 °F
<b>Salinity Correction</b>	0 to 39 % Salt
<b>Air Pressure Compensation</b>	0 to 8900 meter

<b>Range/Resolution</b>	<b>Conductivity</b> ( $\mu$ S, mS) 0 - 200.0 $\mu$ S / 0.1 $\mu$ S 0.2 - 2.000 mS / 0.001 mS 2 - 20.00 mS / 0.01 mS 20 - 200.00 mS / 0.1 mS <b>TDS</b> (Total Dissolved Solids) 0 - 132 ppm / 0.1 ppm 132 - 1,320 ppm / 1 ppm 1,320 - 13,200 ppm / 10 ppm 13,200 - 132,000 ppm / 100 ppm
<b>Accuracy</b>	<b>Temperature</b> 0 - 60 °C / 0.1 °C 32 - 140 °F / 0.1 °F $\pm$ 2 % F.S. + 1 digit $\pm$ 0.8 °C / $\pm$ 1.5 °F
<b>Function</b>	Conductivity ( $\mu$ S, mS) TDS ( Total Dissolved Solids, PPM ) Temperature (°C, °F)

## Accessories

Code	Article
721330	Spare electrode plastic/gel type BNC-plug
721250	pH buffer set 4.00/7.00/10.00 (25°C)
721247	pH buffer, 4.00 (25°C), 90 ml
721248	pH buffer, 7.00 (25°C), 90 ml
721249	pH buffer, 10.00 (25°C), 90 ml
721252	pH buffer 4.00 (25°C) 1 litre
721254	pH buffer 7.00 (25°C) 1 litre
721256	pH buffer 10.00 (25°C) 1 litre
721242	Redox electrode plastic/gel type BNC-plug
195070	Redox calibration solution, 470 mV, 100 ml
724400	Conductivity probe (Con / TDS) (approx. 1.2 m cable)
722250	Calibration solution 1413 $\mu$ S/cm
724410	Oxygen sensor, (approx. 4 m cable)
724460	Spare membrane for oxygen sensor
724470	Spare electrolyte for oxygen sensor
724420	Temperature probe PT1000 (approx. 1.5 m cable)
724500	RS232 cable for connection to a PC
724510	USB cable for connection to a PC
724540	Power supply
725050	Case incl. foam
724520	Data Retrieve Software Software which enables the user to transmit data stored on the instrument to a computer
724530	Data Logger / Acquisition Software Software which enables the user to monitor and log data on a computer (online measurement)

## Delivery Content

**Order code: 724200**  
**SensoDirect 150 Set pH/Con/TDS/Oxi** instrument, batteries, pH electrode, temperature probe, conductivity probe, oxygen sensor, pH buffer set 4.00 / 7.00, electrolyte, membrane heads, instruction manual, guarantee sheet, in case

**Order code: 724210**  
**SensoDirect 150 Set pH / Con / TDS** instrument, batteries, pH electrode, temperature probe, conductivity probe, pH buffer set 4.00 / 7.00, instruction manual, guarantee sheet, in case

**Order code: 724220**  
**SensoDirect 150 Set pH / Oxi** instrument, batteries, pH electrode, temperature probe, oxygen sensor, pH buffer set 4.00 / 7.00, electrolyte, membrane heads, instruction manual, guarantee sheet, in case

**Order code: 724230**  
**SensoDirect 150 Set pH / Redox** instrument, batteries, pH electrode, temperature probe, redox electrode, pH buffer set 4.00 / 7.00, instruction manual, guarantee sheet, in case

## Highlights

- pH/Redox  
Conductivity/TDS  
Dissolved Oxygen  
Temperature °C/°F
- Real time data logger
- Protective casing
- RS 232 / USB