

MicroDirect (IP 67 waterproof)

Optional temperature measurement °Celsius/°Fahrenheit



The MicroDirect series is a range of waterproof and dust-tight (IP67) units for the determination of pH, ORP/redox, conductivity, TDS, salinity and temperature.

The compact, robust housing and replaceable electrodes meet the high standards required of state of the art technology.

All units are equipped with an automatic switch-off and a "Hold" function which freezes the result in the display with a single keypress.

Delivery Content

Each MicroDirect will be supplied with batteries, lanyard, instruction manual as a ready to use unit in a sturdy plastic box (exception: MicroDirect Temperature).

Variants

■ pH

■ ORP / Redox

■ Conductivity

■ TDS

■ Salt

■ Temperature

	pH 10	pH 30	ORP/Redox 10	Conductivity EC 11
Range	0...14 pH		-999...+1000 mV	0...2000 $\mu\text{S}/\text{cm}$ 0...20,00 mS/cm^1
Resolution	0,1 pH	0,01 pH	1 mV	10 $\mu\text{S}/\text{cm}$
Accuracy	$\pm 0,1$	$\pm 0,01$	$\pm 1\%$ Full scale	$\pm 1\%$ Full scale
Calibration	3-point		1-point	1413 $\mu\text{S}/\text{cm}$ 12,88 mS/cm
Temperature	Display	0...50 °C/32-122°F		0...50 °C/32-122°F
	Resolution	---	0,1 °C/°F	0,1 °C/°F
	Accuracy	---	$\pm 0,5^\circ\text{C}/0,9^\circ\text{F}$	$\pm 0,5^\circ\text{C}/0,9^\circ\text{F}$
	Compensation	0-50 °C / 32-122 °F		0-50 °C / 32-122 °F
	Operation Temp.	0-50 °C		0-50 °C
Battery Capacity	> 500 h	> 500 h	> 500 h	> 150 h
Auto Off	approx. 8.5 minutes after last keypress			
Size/Weight	approx. 16.5 cm x 3.8 cm ,90 g			
with Packaging	approx. 22 cm x 6 cm x 5 cm,170 g			
Order Code	194641	194631	194661	194681
CE-Conformity				

	TDS 11	Salt 11	Temperature
Range	0...2000 ppm 0...10,00 ppt ²⁾	0...10,00 ppt ³⁾ NaCl	-40...+200 °C changeable auf °F
Resolution	10 ppm 0,10 ppt	0,10 ppt	0,1 °C
Accuracy	$\pm 1\%$ Full Scale	$\pm 1\%$ Full Scale	$\pm 1\text{ °C}$ from -10°C...+100°C $\pm 2\text{ °C}$ > +100°C...+200°C
Calibration	9,98 ppm 9,02 ppt	1-point	---
Temperature	Display	0-50 °C 32-122°F	0-50 °C 32-122°F
	Resolution	0,1 °C/°F	0,1 °C/°F
	Accuracy	$\pm 0,5^\circ\text{C}/0,9^\circ\text{F}$	$\pm 0,5^\circ\text{C}/0,9^\circ\text{F}$
	Compensation	0-50 °C / 32-122 °F	
	Operation Temp.	0-50 °C	0°C...40 °C max. 80°C (cable)
Battery Capacity	> 150 h	> 150 h	approx. 1 year
Auto Off	approx. 8.5 minutes after last keypress		approx. 15 minutes after last keypress
Size/Weight	approx. 16.5 cm x 3.8 cm \varnothing , 90 g		approx. 9.5 cm x 6.0 cm x 1.8 cm, 130 g
with Packaging	approx. 22 cm x 6 cm x 5 cm, 170 g		approx. 26 cm x 7.5 cm x 2.0 cm, 160 g
Order Code	194701	194711	194730
CE-Conformity			

Conversion table

¹⁾ 0 - 20,00 mS/cm = 0 - 20000 $\mu\text{S}/\text{cm}$

²⁾ 0 - 10,00 ppt TDS = 0 - 10000 ppm TDS

³⁾ 0 - 10,00 ppt NaCl = 0 - 10000 ppm NaCl

ppm = Parts per Million (mg/l)

ppt = Parts per Thousand (g/l)