

# MicroDirect (IP 67 waterproof)



pH-value  
ORP/Redox  
TDS  
Conductivity  
Salinity  
Temperature

Photo: Schwimmbad & Sauna / Grafinger

MicroDirect	pH 10	pH 30	ORP/Redox 10	Conductivity EC 11
<b>Range</b>	0...14 pH		-999...+1000 mV	0...2000 $\mu$ S/cm 0...20,00 mS/cm <sup>1)</sup>
<b>Resolution</b>	0.1 pH	0.01 pH	1 mV	10 $\mu$ S/cm
<b>Accuracy</b>	$\pm$ 0,1	$\pm$ 0,01	$\pm$ 1 % Full scale	$\pm$ 1 % Full scale
<b>Calibration</b>	3-point		1-point	1413 $\mu$ S/cm 12.88 mS/cm
<b>Temperature</b>	<b>Display</b>	0...50 °C/32-122°F		0...50 °C/32-122°F
	<b>Resolution</b>	0.1°C/°F		0.1°C/°F
	<b>Accuracy</b>	$\pm$ 0.5°C/0.9°F		$\pm$ 0.5°C/0.9°F
	<b>Compensation</b>	0-50 °C / 32-122 °F		0-50 °C/32-122 °F
	<b>Operation Temp.</b>	0-50 °C		0-50 °C
<b>Battery Capacity</b>	> 500 h	> 500 h	> 500 h	> 150 h
<b>Auto Off</b>	ca. 8.5 minutes after last keypress			
<b>Size/Weight</b>	ca. 16.5 cm x 3.8 cm ,90 gr			
	<b>with Packaging</b> ca. 22 cm x 6 cm x 5 cm,170 gr			
<b>Order Code</b>	19 46 41	19 46 31	19 46 61	19 46 81



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).

MicroDirect	TDS 11	Salinity 11	Temperature
<b>Range</b>	0...2000 ppm 0...10,00 ppt <sup>2)</sup>	0...10.00 ppt <sup>3)</sup> NaCl	-40...+200 °C changeable to °F
<b>Resolution</b>	10 ppm 0.10 ppt	0.10 ppt	0.1 °C
<b>Accuracy</b>	$\pm$ 1 % Full Scale	$\pm$ 1 % Full Scale	$\pm$ 1 °C from -10°C...+100°C $\pm$ 2 °C > +100°C...+200°C
<b>Calibration</b>	9.98 ppm 9.02 ppt	1-Point	
<b>Temperature</b>	<b>Display</b>	0-50 °C 32-122°F	0-50 °C 32-122°F
	<b>Resolution</b>	0.1°C/°F	0.1°C/°F
	<b>Accuracy</b>	$\pm$ 0.5°C/0.9°F	$\pm$ 0.5°C/0.9°F
	<b>Compensation</b>	0-50 °C / 32-122°F	
	<b>Operation Temp.</b>	0-50 °C	0°C...40 °C max. 80°C (cable)
<b>Battery Capacity</b>	> 150 h	> 150 h	ca. 1 year
<b>Auto Off</b>	ca. 8.5 minutes after last keypress		ca. 15 minutes after last keypress
<b>Size/Weight</b>	ca. 16.5 cm x 3.8 cm $\varnothing$ , 90 gr		ca. 9.5 cm x 6.0 cm x 1.8 cm, ca.130 gr
	<b>with Packaging</b> ca. 22 cm x 6 cm x 5 cm, 170 gr		ca. 26 cm x 7.5 cm x 2.0 cm, ca.160 gr
<b>Order Code</b>	19 47 01	19 47 11	19 47 30

## Conversion table

- <sup>1)</sup> 0 - 20.00 mS/cm = 0 - 20000  $\mu$ S/cm  
<sup>2)</sup> 0 - 10.00 ppt TDS = 0 - 10000 ppm TDS  
<sup>3)</sup> 0 - 10.00 ppt NaCl = 0 - 10000 ppm NaCl  
0 - 10.00 ppt NaCl = 0 - 1 % NaCl  
0 - 10.00 ppt NaCl = 0 - 10 g/l NaCl  
ppm = Parts per Million = mg/l  
ppt = Parts per Thousand = g/l