



Large graphic display  
Simultaneous display  
of all the parameters



Carrying case  
with all required elements for work

## Features and benefits

Ergonomic and robust instrument, IP67 waterproof; resistant in harsh working conditions.  
*PH1 highlights with easy operation, high quality and excellent price.*

The carrying case includes all necessary accessories to ensure accurate measurement.  
*Instrument can be seated at an angle for convenient viewing of the display; sensor and the calibration flasks are held in an upright position for easy calibration and measurement.*

Kit versions are available that include carrying case, accessories and sensor.  
*A wide range of high quality sensors that cover all types of applications, from low ionic strength to viscous, dirty samples.*



**LANGE** 

## Specifications

Parameters	pH	mV	Temperature
Measuring range	-2.00...19.99	± 1400	-20...150 °C (-4... 302 °F)

Measuring error (± 1 digit)		Reproducibility (± 1 digit)	
pH	≤ 0.01	pH	± 0.01
mV	≤ 1	mV	± 1
Temperature	≤ 0.2 °C (0.4 °F)	Temperature	± 0.1 °C (0.1 °F)

**Temperature compensation:** With built-in Pt1000 temperature sensor.

### pH calibration

With 1, 2 or 3 buffers selectable between: 2.00, 4.01, 7.00, 9.21 and 10.01 (at 25 °C). Automatic recognition of pH values of buffers at different temperatures. Manual calibration at any pH value. Theoretical calibration (factory settings).

### mV calibration

With 1 standard, 220 mV (at 25 °C). Automatic recognition of mV values of standard at different temperatures. Manual calibration at any mV value. Theoretical calibration (factory settings).

### Temperature readjustment

Correction of the temperature probe deviation (A.T.C.) at 25°C and 85°C. Can be used as thermometer of precision.

**Measuring mode:** Stability and continuous.

**Connector:** MP-5, 5 contacts multipin.

**Display:** Liquid crystal, backlit, with pictograms.

### Physical parameters:

Material ABS. Degree of protection IP 67. Weight 300 g. Size 186 x 73 x 38 mm.

### Ambient conditions

Operating temperature: 0 °C to 50 °C.  
Storage temperature: -15 °C to 65 °C.  
80% relative humidity (non-condensing).

### Directives low voltage and EMC

According to CE, UNE-EN 61010-1 and UNE-EN 61326-1.

### Power supply

3 x 1.5V, type AA batteries. Over 400 hours operation.  
Automatic power off after 5 minutes of inactivity (this option can be disabled by the user).

## Recommended electrodes

### 5050T, for general use.

Combined pH, plastic body.  
With built-in temperature sensor.  
0 to 14 pH / 0 to 80 °C.

### 5051T, for general use.

Open diaphragm, glass body.  
With built-in temperature sensor.  
2 to 14 pH / 0 to 80 °C.

### 5052T, for low conductivity.

PTFE junction, glass body.  
With built-in temperature sensor.  
0 to 14 pH / 0 to 100 °C.

### 5055, Redox.

Platinum electrodes (Pt), plastic body.  
± 2000 mV / 0 to 80 °C.



5050T with storage protector

Code: LZW5050T.97.002



5051T

Code: LZW5051T.97.002



5052T

Code: LZW5052T.97.002



5055

Code: LZW5055.97.0002

## How to order

Product number	Sample type	Description	Included accessories
LPV2500.98.0002		PH1, with accessories, without electrode	
LPV2550T.98.0002	Kit for general use	PH1, with accessories & electrode 5050T	<ul style="list-style-type: none"> <li>• Carrying case</li> <li>• Solutions: pH 4, pH 7, pH 9, KCl and Redox 220 mV</li> <li>• Calibration tubes</li> <li>• Flasks for sample and sensor cleaning</li> <li>• Working protector (only with electrodes 5050T, 5051T &amp; 5052T).</li> <li>• User manual</li> </ul>
LPV2551T.98.0002	Kit for difficult media	PH1, with accessories & electrode 5051T	
LPV2552T.98.0002	Kit for low conductivity	PH1, with accessories & electrode 5052T	
LPV2555.98.0002	Kit for Redox measure	PH1, with accessories & electrode 5055	

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