

HENNLICH IPARTECHNIKA KFT

6000 Kecskemét-Kadafalva, Heliport Reptér - www.hennlich.hu

Measuring gauge PH 100 Temperature, pH and conductivity measurements

Liquids for the electroplating process require precise observation of their parameters. To ensure the quality of the electroplating the pH measurement is therefore one of the most important criteria.

For measuring the pH value, the pH electrode is also an essential component of the complete measuring gauge. Standard is an electrode with plastic shaft. As a single measuring rod, the combination of working electrode and reference electrode are incorporated into one design.

To guarantee the functionality of the electrode, the electrode tip is sealed with a fluid-filled cap. This should be regularly controlled.

The pH electrode should be calibrated at regular intervals. The calibration is swiftly and easily carried out with the help of the built-in calibration tools and the provided buffer solutions. For quality control purposes, the zero point and gradient can be simply read off the display.

The pH measurement transmitted should always be recorded together with the displayed temperature measurement.

With the new portable measuring set PH 100, for transmitting the pH value, many important process parameters can be swiftly and simply determined. The practical range of functions available via waterproof buttons, and the automatic temperature compensation via a separate stainless steel temperature sensor, facilitate their quick and reliable handling. In addition to the pH measurement, this multifunctional device also includes the possibility for measuring temperature and the determination of electrical conductivity of aqueous solutions.

The measuring gauge will be delivered in a compact and robust plastic case along with the corresponding buffer solutions and measuring electrodes.



Glass electrodes are also available in the range of accessories, alongside other plastic pH electrodes. When designing the gauge, most emphasis is placed upon the ease of use and robustness.

This portable, battery-powered analysis gauge is suitable for all uses.

This may be in the laboratory, in production, in waste water treatment, in routine on-the-spot measurements, or anywhere where precise measurements are required.



Technical information

Ambient temperature 5 - 50°C

Display 8 digits x 14 Segments LCD - 7 mm background lighting

with connectible background lighting

pH – input resistance >1012 Ohm pH – input current <1 pA

Batteries 3x1,5V, approx.90hrs. life,

battery control display, auto timer switches off after 15 min

Weight 550g including measuring sensor
Casing Aluminium (anodised with silver)
Dimensions L=128 mm, W=82 mm, H=31 mm

pH measurement

Working range 0,00 to 14,00 pH
Automatic temperature compensation 0 to 100°C

Display accuracy ±0,01 pH

Automatic calibration with the buffers pH7,00 and pH4,00 or pH7,00 and pH9,00

(Buffer value is prescribed and will be automatically identified)

pH single measuring rods (electrodes)

Dimensions Ø12 mm x L = 125 mm

All round standard pH electrode

with plastic shaft pH single measuring rod pH62

1-12pH, 0-60°C

Precision of pH electrode with glass shaft pH single measuring rod InLab412

0-14pH, 0-98°C

Temperature measurement

Measuring range -25,0°C to +150,0°C

Resolution 0,1°C Accuracy ±1K

Sensor Pt 1000 IEC 60751, Class B

Conductivity measurement

Display Range 0-99,99 μS/999,9 μS/9999 μS/99,99 mS/999,9 mS

Measuring error up to 200,0mS: 2% or 8 digit

up to 500,0mS: 4% or 5 digit

The measuring frequency adjusts automatically to the conductivity

(approx. 20Hz to 110kHz)

Temperature coefficient - adjustable from 0-3,9 % (Standard setting: 2,2 % N, natural water)

Reference temperature 20°C/25°C adjustable

Dimensions of conductivity measuring cells $W=32\,mm$, $D=18\,mm$, $L=165\,mm$