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## Specifications

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### Measurement procedures

pH, mV and ion concentration reading with sliding **stability indicator**

**AUTOREAD** of pH, mV and ion concentration: result is locked on display when stability criterion and/or maximum accept time are reached

pH/mV/ion concentration reading and printing **at intervals**

Min. and max. alarms can be set for pH, mV, concentration and temperature

### pH calibration modes

One, two or multi-point calibration (up to 9)

**AUTO** recognition of buffers: IUPAC standards (DIN 19266): pH 1.679, 4.005, 7.000, 10.012 and 12.45 *or*

Technical buffers (DIN 19267): pH 1.09, 4.65 and 9.23 *or* 4-7-10 Series: pH 4.00, 7.00 and 10.00

Calibration with **FIXED** buffers selected from the above buffers and IUPAC pH 6.865, 7.413 and 9.180

**FREE** entry of the buffer value

The actual pH value of the buffer is automatically computed according to the temperature measured or manually entered in AUTO and FIXED modes

### ISE calibration

Calibration on 1 or 2 standards

### Concentration units

mol/l, mmol/l,  $\mu$ mol/l, g/l, mg/l, M, mM, % and ppm

### Electrode requirements

(Autocal)

Sensitivity: 95 to 102%

Zero pH: 5.800 to 7.500 pH

### GLP functions

Complete printouts with date, time, instrument ID and, if selected, calibration data used

Last 9 calibration results and last 9 sample results for each of the 6 methods

### Measuring ranges

pH: -9.000 to +23.000

mV: -1999.9 to +1999.9

Conc.:  $0.001 \times 10^{-9}$  to  $999.9 \times 10^9$

°C: -9.9 to +99.9

### Resolution

pH: 0.001

mV: 0.1

Conc.: 0.5% (monovalent ions)  
1% (divalent ions)

°C: 0.1

### Input accuracy

pH:  $\pm 0.002$  pH

mV: max. ( $\pm 0.1\%$ ,  $\pm 1$  LSD)

Conc.:  $\pm 0.5\%$  (monovalent ions)  
 $\pm 1\%$  (divalent ions)

°C:  $\pm 0.5^\circ\text{C}$

### Electrode inputs

Single or combined, glass, metal or ion-selective electrode (BNC plug)

Reference electrode (banana plug)

Temperature sensor (CINCH plug)

### Electrode input resistance

$> 2 \times 10^{12} \Omega$

### Terminal current

$< 0.5$  pA at  $25^\circ\text{C}$  ambient

### Input/Outputs

**RS232C** insulated port for printer or PC. 9-pin D-connector

**RS232C** insulated port for SAC80/90 Sample Changer

**Analogue** recorder output

### Display

2 x 16-character alphanumeric

LCD display

### Languages

English, German and French

### Finish

Chemical resistant, splash-proof cabinet

### Power requirements

115/230 Vac -18/+15%

47.5 to 63 Hz, 8 VA

### Electromagnetic compatibility

EMC qualified

### Ambient temperature

5 to  $40^\circ\text{C}$

### Relative humidity

20 to 80%

### Dimensions (H x W x D)

8 x 28.5 x 20 cm

### Weight

1.9 kg

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## Order Information

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PHM240 pH/Ion Meter **R21M134**



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