

# pH/Ion 3400i Ion Selective Electrode Analyzer

Meter for measuring ISE/pH, temperature and ORP



## Description

The pH/mV and ion selective electrode analyzer pH/ION 3400i offers the highest degree of flexibility possible. For pH measurements the ion selective electrode analyzer can be calibrated manually or automatically and offers simultaneous display of pH and temperature. For measurements with ion-selective electrodes the pH/ION 3400i ion selective electrode analyzer offers concentration display in mg/l. The ion selective electrode analyzer also displays directly in mV to  $\pm 999.9$  mV in 0.1 mV steps; and to  $\pm 1999$  mV in 1 mV steps.

Of course, even in these higher ranges the ion selective electrode analyzer calculates the concentration from a mV resolution of 0.1 mV. Calibration of the ion selective electrode analyzer is carried out with up to three standards (selected from 16 standards in the range of 0.01 to 1000 mg/l).

Operating on either line power or rechargeable battery for up to 1500 hours with "LoBat" warning means that the ion selective electrode analyzer can be used in the laboratory or in the field. Lightweight and compact, the rugged ion selective electrode analyzers are IP 66 (hose proof) and IP 67 (submersible). The ion selective electrode analyzer has a built-in datalogger for up to 500 measurements together with GLP calibration protocol offers a comprehensive documentation of the results. The ion selective electrode analyzer supports analog or digital data transfer (RS 232), automatic recognition of stable measurements (AutoRead), electrode evaluation and calibration interval monitoring functions to ensure reproducible and reliable measurements.

- Simultaneous display of pH and temperature
- Up to 1500 hours with "LoBat" warning
- Built-in datalogger
- IP67 waterproof rated

## Specifications

### Measuring Ranges:

pH: -2.000 to +19.999, -2.00 to +19.99

mV: -999.9 to +999.9, -1999 to +1999

Temp: -23 to 221 °F (-5.0 to 105.0 °C)

ISE: 0.000 to 9.999 mg/l, 0.00 to 99.9 mg/l, 0.0 to 999.9 mg/l, or 0 to 1999 mg/l

### Measuring Resolution:

pH: 0.001, 0.01

mV: 0.1, 1

Temp: 0.2 °F (0.1 °C)

ISE: 0.001 mg/l, 0.01 mg/l, 0.1 mg/l, 1 mg/l

### Precision:

pH ( $\pm$  pH units from the calibration point):  $\pm 0.003$  from 59 to 95 °F (15 to 35 °C),  $\pm 0.01$

mV:  $\pm 0.2$  from 59 to 95 °F (15 to 35 °C)

Temp:  $\pm 0.1$  (NTC 30);  $\pm 0.5$  from 32 to 59 °F (0 to 15 °C),  $\pm 0.1$  from 59 to 95 °F (15 to 35 °C),  $\pm 0.2$  from 95 to 131 °F (35 to 55 °C) (PT 1000)

pH correction function: Manual from -4 to 266 °F (-20 to 130 °C)

Usable ISE electrodes: Combination and single electrodes with connector according to DIN 19262

ISE calibration procedure: Two point calibration or three point calibration with standards suiting the sample

ISE slope ranges:  $\pm 25$  to 35 mV and  $\pm 50$  to 70 mV

### Ambient Conditions:

Storage: -13 to +149 °F (-25 to +65 °C)

Operation: 14 to 131 °F (-10 to +55 °C)

Climatic Class: 2

### Power:

Batteries: 4 x 1.5 V alkali-manganese batteries, type AA

Operational Life: approx. 3000 operating hours

### Mains:

The following applies to all plug-in power supplies:

Connection max. overvoltage category II

Input: 100 to 240 V ~ / 50 to 60 Hz / 400 mA

Output: 9 V = / 1.5 A

Weight: 0.7 lbs (0.3 kg)

Size: 6.8x3.1x1.5 in (172x80x37 mm)

IP Rating: IP-66 & 67

Certifications: cETLus, CE

Electrical Safety: Protective class III

## Options and Accessories

**pH/Ion 3400i Ion Selective Electrode Analyzer**  
Electrodes not included.

### Electrodes

See website, [www.globalw.com](http://www.globalw.com).



**Global Water**  
a xylem brand

In the U.S. call toll free  
at 1-800-876-1172  
International: 1-979-690-5560  
Fax: 1-979-690-0440  
Email: [globalw@globalw.com](mailto:globalw@globalw.com)

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