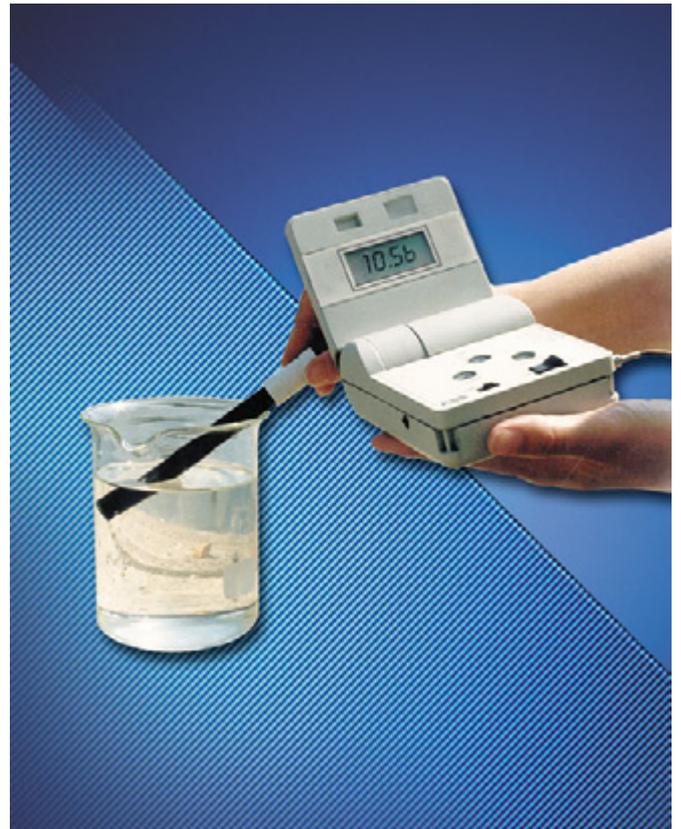


- A 'two for the price of one' instrument
- Simulates pH and Redox signals for instrument testing
- Battery operated for portability
- Long battery life
- Compact, pocket-sized, rugged case
- LCD display with high resolution
- Hinged lid with variable viewing angle
- Measures pH, Redox (ORP) and temperature



Description

Versatility is the key feature of the new portable pH meter and calibrator which has been added to ABB's comprehensive range of analytical instrumentation. Designed primarily for field work, industrial environments and trouble-shooting applications where robust simplicity is important, it is nevertheless sophisticated enough to be used as a laboratory bench meter.

How often has even the skilled technician longed for a simple compact means of checking which part of a pH measuring loop is giving the problem – is it the electrodes or is it the electronics?

Now with one instrument such checks can be made simply. The Model 2410 has the capability of directly measuring and displaying pH, Redox potential and temperature when connected to suitable electrode sensors from the ABB, or other competitive, range. In addition the dual purpose Model 2410 has the advantage of being able to inject pH, millivolt and high impedance signals into any pH/Redox meter. This enables the functionality, insulation of cables and junction boxes and total electronic integrity of the instrument part of a measuring loop to be verified easily. Whilst being compatible with any pH/Redox meter it particularly enables full testing and automatic calibration to be carried out on any pH transmitter in the ABB range, since any value of pH signal from 0 to 14, in 0.01pH stages, can be simulated.

Although it has a suitably high specification for routine laboratory application, the ease of use of the Model 2410 means that highly skilled personnel are not required to operate it.

The Model 2410 features a large liquid crystal display (LCD) mounted in the hinged cover, which is adjustable through an angle of 90° to 180° for optimum visibility. When the cover is closed the unit is automatically switched off.

Specification

General

Display viewing angle	Adjustable from 90° to 180°
Electrode connection	BNC for pH and Redox 3.5mm jack plug for temperature probe

Measurements

pH range	0 to 14.00pH
pH accuracy	±0.1pH
mV range	–1000 to 1000
mV accuracy	±0.1%
Temperature range	0 to 100°C
Temperature accuracy	±0.5°C
Resolution	0.01pH, 1mV, 0.1°C
Temperature compensation	0 to 100°C manual
Input impedance	> 1x10 ¹² Ω

Calibrator

pH output	0 to 14pH in 0.01 steps
mV output	–1000 to 1000 in 1mV steps
Output impedance	Low (1x10 ⁵ Ω) or high (1x10 ⁹ Ω) switch selectable
Accuracies	±0.02 pH, ±0.1% mV

Connections

A kit of three leads can be supplied (part no. 7730M-160) comprising:

■ BNC to BNC	Part no. 7730130
■ Earth lead	Part no. 7730150
■ BNC to tags	Part no. 0312740

Power

9V battery giving 100 hours continuous life –
Alkaline 6LR61

Dimensions

96 x 108 x 45mm (3.78 x 4.25 x 1.94 in.) when folded

Weight

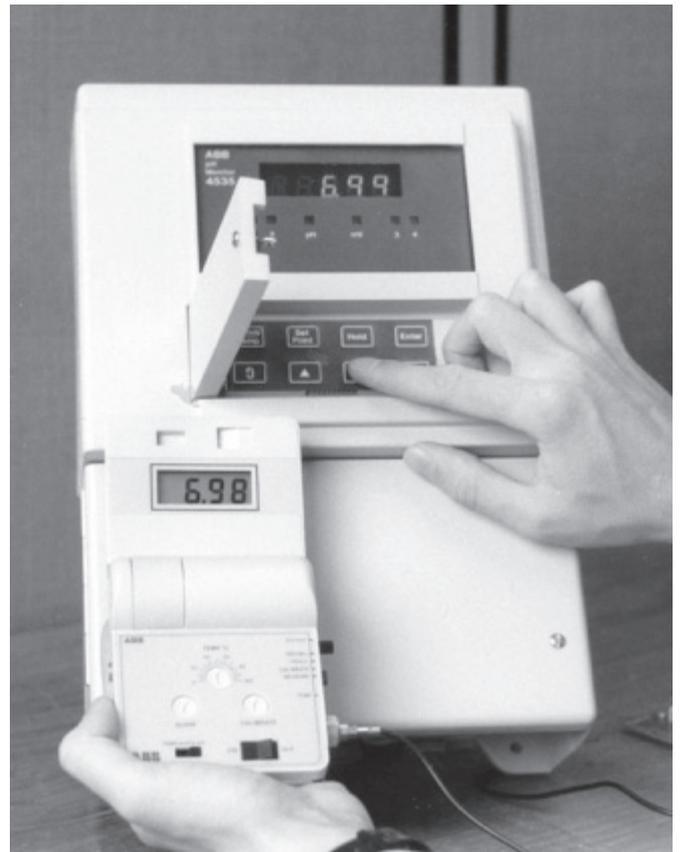
0.34kg (0.15 lb) with battery

Ordering Information

2410-000 pH/mV/Temperature meter/simulator

Optional accessories:

- 7730-160 Kit of test leads
- 1413-400 Combination pH electrode (epoxy bodied), 1m (3.25 ft), BNC termination
- 1441-400 Combination Redox (ORP) electrode, 1m (3.25 ft), BNC termination
- 3055-100 Pt100 temperature probe
- 1411-400 Combination pH electrode (glass bodied), 1m (3.25 ft), BNC termination
- 1415-400 Combination spear pH electrode, 1m (3.25 ft), BNC termination
- 0400-135 Buffer powder kit



The 2410 used as a hand-held simulator

ABB has Sales & Customer Support expertise in over 100 countries worldwide

www.abb.com

The Company's policy is one of continuous product improvement and the right is reserved to modify the information contained herein without notice.

Printed in UK (08.04)

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