

8410A Portasal™ SALINOMETER

The Best in Precision Salinometer Measurements in a Portable Case



FEATURES

- Accuracy < 0.003 Salinity
- Completely Portable with Laboratory Accuracy
- Direct Calculation of Salinity
- Rugged, Compact Enclosure
- Small 100 ml Samples and Rapid Measurements
- Easy to Set Up and Operate
- Expanded Temperature Range of 15 °C to 38 °C
- Microprocessor Controlled with RS-232 and IEEE

case and front panel, quick release hose fittings for the front panel, and a new clamp/release system for holding samples under test.

The 8410A is considerably easier to use than earlier salinometers. The built-in intelligence permits a variety of calculations to be carried out with faster collection of data, and output to an easy to read display. Servicing and inspection are also extremely simple in this mechanical package.

Salinity calculation algorithm is based on the Practical Salinity Scale 1978.

Guildline Instruments has been careful to use our extensive salinometer experience to provide a product that will be a valuable asset to any oceanographer. It is based on a measuring technique which has been time proven to be accurate and reliable. Just as important is that it comes from a company which is world renowned in the manufacture of state-of-the-art metrology and oceanographic equipment of the highest quality.

GUILDLINE INSTRUMENTS SALINOMETERS HAVE BEEN THE LEADING SALINITY MEASUREMENT INSTRUMENTS FOR OVER 20 YEARS.

THE 8410A Salinometer will deliver salinity calculations on-board ship with laboratory level accuracy.

This portable salinometer measures conductivity ratios and displays calculated salinity directly as well as measured parameters.

Oceanographers require reliable shipboard salinometers to augment the sophisticated CTD's now available; the Guildline 8410A is the perfect solution. The enhanced computer interface capability of the 8410A, its ease of set-up and operation, and Guildline's reputation for quality will ensure confidence in the integrity of your on-board salinity measurements.

For over 30 years Guildline Instruments has enjoyed the reputation of providing the finest salinometers. The measuring technique used in the PORTASAL is identical to that used in the 8400B laboratory salinometer.

The 8410A combines a microprocessor technology the time-tested measurement principles and reliability of the Guildline Autosal® laboratory salinometer. It is housed in a compact, protected package that is easy to use while providing faster calculations and improved datalogging capability.

Rugged reliability, portability and laboratory accuracy... that's the 8410A Portasal™ from Guildline.

Careful design has ensured that the 8410A PORTASAL™ retains a high level of performance in a convenient package for field or shipboard use. RS-232C/SAIL interfaces and IEEE 488 are standard. The 16 character display may be configured through the keypad, or the interface, to display several parameters including conductivity ratio, salinity, temperature and reference values. The display also allows for 16 lines of header information to be entered in from the keyboard.

The mechanical packaging incorporates requirements specifically requested by users of salinometers. These include a light yet rugged

8410A General Specifications

Measurement Range:	0.004 to 76 mS/cm 0.0001:1.15 Conductivity Ratio
Accuracy:	± 0.003 Equivalent PSU @ same set point temperature as standardization and within -2 °C and +4 °C of ambient.
Resolution:	0.0003mS/cm @ 15 °C and 35 PSU 0.0003 Equivalent PSU
Sample Volume:	Maximum required 100ml (starting from fresh water in the cell), including flushing volume
Water Bath Temperature:	15 °C to 38 °C in steps of 1 °C
Bath Volume	9L (2.3 US gals.)
Temperature Stability:	± 0.001 °C
Dimensions:	52cm high, 45cm wide, 42cm deep (20.5", 17.7", 16.5")
Weight:	Bath empty; 20kg (44 lbs) including front cover
Power Requirements:	90 to 132 VAC 50/60 Hz 200 to 265 VAC 50/60 Hz 200 VA maximum
Temperature Operating:	5 °C to 40 °C
Storage:	-40 °C to 70 °C

ORDERING INFORMATION

8410A	"Portasal" Laboratory Salinometer
Accessories:	
84101	Conductivity Cell
84102	Maintenance Kit
84104	Thermistor Kit
84105	External Sample Pump

GUILDLINE IS DISTRIBUTED BY:

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