

simpleSDI

Prevent membrane fouling with simple SDI.



simple SDI :
the portable
automated
SDI measurement tool

Why SDI?

Routine SDI measurement can prevent membrane fouling and improve the efficiency of RO systems. The manual SDI method is tedious, time consuming and prone to errors. By automating the test, simple SDI provides an accurate, easy means to perform routine SDI measurements.

simple SDI is compact, light-weight and battery-powered. simpleSDI's portability makes it ideal for troubleshooting and routine monitoring of multiple systems.

Features

- The microcontroller realizes more accurate data than manual measurement (ASTMD4189-07) and provides more useful information
- New type of lithium battery, each charge test can be up to 30 hours, power display, worry-free charging
- When the power is lower than 20%, the instrument will automatically shut down to extend the battery life
- The use of 47mm filter membrane conforming to ASTM D4189-14 to ensure compliance with standards and obtain consistent test results, which achieves global universality and reduces use costs
- The new dual pressure regulator design can provide safe operation up to 100psi, and improve the accuracy by adjusting the pressure of the pressure regulator
- Perform SDI5, 10, 15 minutes 100ml and 500ml 6 numerical measurements, the data it provides is not possible with manual SDI measurement methods. This feature is especially important in the performance of high SDI value measurement.
- No special person operation is required, and the result will be automatically obtained after 15 minutes of action after the start-saving your time.
- Real-time display of test results, including SDI and current flow rate and elapsed time. After that, the values of 100ml and 500ml SDI5, 10, 15 will be displayed.
- 100 sets of test records can be stored, corresponding to the test time one by one, which is convenient for tracing the data at any time.
- Test data can be downloaded through the USB port, and the data can be stored for a long time.
- The USB port is both a battery charging port and a data download port, which can be used in common with other USB chargers, reducing matching costs.
- Waterproof enclosure (IP66) ensures that sensitive electronics are protected.

Specifications

Dimensions	Inch (mm)
	Wide Deep High
	14.0 (356) 11.25 (286) 4.75 (121)
Weight	6 pounds, (2.7kg)
Electrical	
Battery Type:	6 Volt, 3000 mAH Lithium Polymer (LiPo)
Battery Life:	At least 5 years of typical usage. (Over 300 full charge cycles)
Battery Capacity:	Approximately 30 hours of testing.
Power Supply:	5VDC, USB-A Port charger, (e.g.phone, tablet or other device charger (user supplied))

Sample Water Requirements

Feed Pressure	35 psi minimum, 100 psi maximum. (Booster pump available.)
Minimum flow rate	1.4 Liters per minute at 35 psi at start of test. Flow decreases during test.
Temperature	100°F maximum. (max 1°F variation during test)
Solids	Free of large solids. Filter to 50 micron minimum.

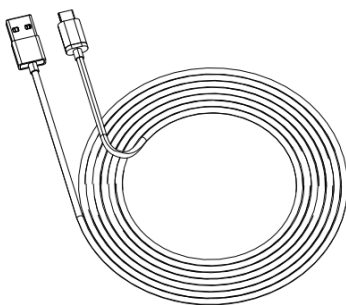
Tests Performed

SDI5	Range: 0-20	100ml and 500 ml sample volumes
SDI10	Range: 0-10	100 ml and 500 ml sample volumes
SDI15	Range: 0-6.7	100 ml and 500 ml sample volumes

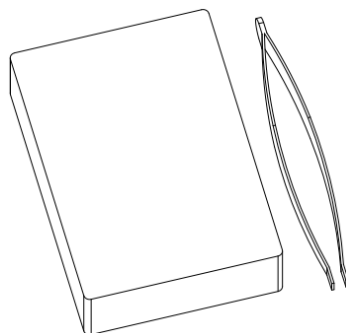
Applicable Standard	ASTM D4189-07 (2014)
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Included with simple SDI:

Charge/data transfer cable
USB-A Micro USB



Membrane Filters &
Tweezers



Optional Components:

Booster Pump

