

## 9033X SODIUM ANALYZER

**Waltron's 9033X Sodium Analyzer delivers exceptional results in a streamlined low-cost package. An enhanced color touch screen user interface makes the 9033X easy to operate and easy to maintain.**

The 9033X Sodium Analyzer can be used in a variety of ultrapure water applications. Common measuring points in a boiler system for online sodium measurement include: make-up water, condensate, boiler feedwater and saturated steam/main steam. The Waltron 9033X Sodium Analyzer comes with true fully automatic calibration and offers many benefits in terms of ease-of-use and increased functionality.

### FEATURES

**Large user-friendly color touch screen interface**

**Wide analysis range: 0.1ppb - 10ppm**

**Calibration: automatic 2-point or single point; user may select weekly, bi-monthly, or monthly calibration frequency as well as day and time**

**Hassle-free maintenance: calibration standards and electrode refill can last up to 3 months**

**Low sample flow indication (optional)**

**Quick connect electrodes and probe positioning clamps**

**Automatic reference electrode electrolyte refill system**

**Grab sample capability**

**Two 4-20 mA isolated current outputs**

**Internal data logger set to store readings every 10 minutes for 30 days**

**Automatically logs last 10 alarms and results of last 10 calibrations**

**Reagents: Ammonium Hydroxide (standard) or Di-isopropylamine (optional)**



See reverse side for specifications.

## 9033X SODIUM ANALYZER | GENERAL SPECIFICATIONS

### PERFORMANCE

<b>Range</b>	0.10ppb - 10ppm
<b>Accuracy</b>	±5% of reading or ±0.1ppb (whichever is greater) within ±5°C of calibration temperature
<b>Reproducibility</b>	±5% of reading or ±0.1ppb (whichever is greater) at constant temperature
<b>Response Time (approximate)</b>	90% of 10-1ppb step: 3 minutes; 90% of 100-1ppb step: 5 minutes
<b>Temperature Compensation</b>	Automatic
<b>pH Compensation</b>	Alkaline vapor buffer:0.88 SG (28% to 30% NH <sub>3</sub> ) ammonia above 0.1 ppb sodium, 99% diisopropylamine solution below 0.1ppb sodium
<b>Calibration</b>	Automatic 2-point or single point; user may select weekly, bi-monthly, or monthly calibration frequency as well as day and time
<b>Current Outputs</b>	Two isolated 4-20mA current (analog) outputs
<b>Digital Outputs</b>	Communication interface via RS-232 & RS-485 using MODBUS RTU protocol
<b>Alarms</b>	Low flow alarm and three additional voltage-free contacts, alarm points set from transmitter rated at 2A, 250VAC (non-inductive)
<b>Power</b>	Wide range of input power supply 90VAC - 250VAC
<b>Certification (on request)</b>	Meets low voltage and low electromagnetic compatibility directives

### SAMPLE DELIVERY OPERATING CONDITIONS

<b>Sample</b>	Temperature: 41 - 131°F (5 - 55°C); Flow 150 - 400 ml/min
<b>Ambient Temperature</b>	32 - 131°F (0 - 55°C)
<b>Pressure</b>	5 - 30 psig (0.35 - 2.07 bar)
<b>Composition</b>	Sample should be filtered to 60 microns, free of film forming compounds

### MECHANICAL

<b>Construction</b>	Transmitter - high strength ABS, IP65 (NEMA 4x) Wet Section - stainless steel sheet metal, all wetted parts stainless steel or PVC
<b>Dimensions</b>	Height=33.5"(85.1 cm), Width=14.50"(36.83 cm), Depth=11.0"(27.94 cm)
<b>Mounting</b>	Two key-style holes at top: Height=1.38" (3.51 cm), Top Width=0.48" (1.22 cm), Radius=0.47" (1.19 cm) Two bolt notches at bottom: Height=0.88" (2.24 cm), Width=0.48" (1.22 cm), Horizontal=10.25" (26 cm)
<b>Weight</b>	33 lbs. (15 kg)
<b>Wiring</b>	Eight (8) conduit knockouts. Quick connect electrodes.
<b>Piping</b>	Sample Inlet: 1/4"(0.635 cm) OD Swagelok, Drain: 3/8"(0.953 cm) OD tube
<b>Distance</b>	Up to 325 feet (100 meters) on request
<b>Finish</b>	Corrosion resistant

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