

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

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

SAMPLE DELIVERY OPERATING CONDITIONS

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

MECHANICAL

Construction	Transmitter - high strength ABS, IP65 (NEMA 4x) Wet Section - stainless steel sheet metal, all wetted parts stainless steel or PVC
Dimensions	Height=33.5" (85.1 cm), Width=14.50" (36.83 cm), Depth=11.0" (27.94 cm)
Mounting	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)
Weight	33 lbs. (15 kg)
Wiring	Eight (8) conduit knockouts. Quick connect electrodes.
Piping	Sample Inlet: 1/4" (0.635 cm) OD Swagelok, Drain: 3/8" (0.953 cm) OD tube
Distance	Up to 325 feet (100 meters) on request
Finish	Corrosion resistant

102-028-C.1



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