

9031CX SODIUM ANALYZER

Waltron's 9031CX Sodium Analyzer combines simplified design with uncompromised performance. This economic option can save your budget as well as mounting space.

Common 9031CX Sodium Analyzer application points in a boiler system for online sodium measurement include: make-up water, condensate, boiler feedwater and saturated steam/main steam.

Please contact us for panel mount version.



FEATURES

Large user-friendly color touch screen interface

Compact size

Wide analysis range: 0.1 ppb - 10ppm

Quick connect electrodes and probe positioning clamps

Two 4-20 mA isolated current outputs

Low reagent and standard consumption

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

Minimal maintenance required

Automatically stores last 10 calibrations and alarms

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

See reverse side for specifications.

9031CX 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	Manual calibration
Current Outputs	Two isolated 4-20mA current (analog) outputs
Digital Outputs	Communication interface via RS-232 & RS-485 using MODBUS RTU protocol
Alarms	Three 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 - high strength ABS and sheet metal, all wetted parts stainless steel or PVC,IP55 (NEMA 4)
Dimensions	Transmitter: Height = 10.92" (27.74 cm), Width = 7" (17.78 cm), Depth = 3.54" (8.99 cm) Wet Section: Height = 18.25" (46.36 cm) including drain, Width = 11.25" (28.58 cm), Depth = 7.63" (19.38 cm)
Mounting	Four key-style holes: Height = 0.86" (2.18 cm), Top Width = 0.281" (0.714 cm), Radius = 0.28" (0.711 cm) Horizontal: 9" (22.86 cm), Vertical: 12.875" (32.70 cm)
Weight	23 lbs. (10.44 kg)
Wiring	Eight (8) conduit knockouts
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

102-026-C.1



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