

# MODEL NA6 - SODIUM ANALYZER

## Compact online analyzer for the automatic measurement of Sodium

### APPLICATION FIELDS

- Power utilities
- Cooling water
- Water steam cycle
- Condensate analysis
- Boiler feedwater
- Reversed osmosis
- Turbine protection
- Demineralization plants
- High Purity water
- Process water



### ADVANTAGES / FEATURES

#### Dual compartment enclosure

To ensure complete separation between the electronics and the wet part. The reagent bottle is located in the wet part.

#### Automatic calibration

Automatic 1, 2 points calibration minimizes operator intervention ensuring the most accurate results are obtained.

Free selectable calibration intervals. Results of the last ten calibration are stored in the internal datalogger.

#### Reduced operating costs

Low reagent consumption.

The design with no moving parts reduces maintenance requirements and minimizes cost of ownership.

#### MEASUREMENT PRINCIPLE

The sodium measurement is based on the proven accuracy of the glass sodium electrode for the online potentiometry detection of low ppb traces of sodium. The sodium sensor develops a potential proportional to the log of the sodium concentration, after the pH of the sample is raised to 11 to eliminate pH and ammonium interferences. This is obtained using reagent vapor addition.

#### Grab sample capability

Enables unattended analysis of manually collected samples. Results of external samples are stored in the datalogger, including time and date information.

#### Color touchscreen user interface

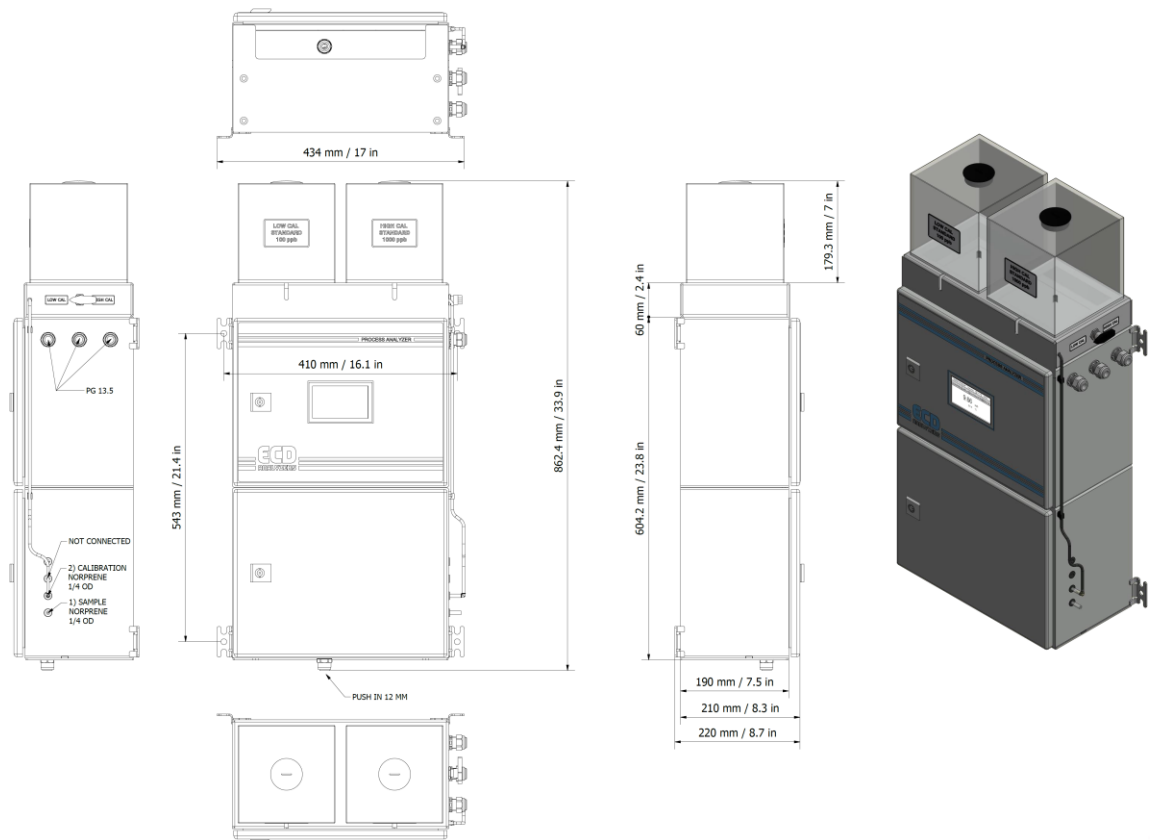
The NA6 analyzer is equipped with a graphic touchscreen interface showing measured values and status information. Easy access to menus and functions. Multiple languages. Integrated datalogger with USB download.

#### Factory tested, ready for installation and operation

Just connect the power, sample, and reagent lines and the analyzer is fully operational.

## TECHNICAL SPECIFICATIONS

Measured parameter:	Na <sup>+</sup> (ppb, ppm, mg/l).	Power supply:	Voltage: 100 - 240 VAC 50/60 Hz standard or 24 VDC (option) Power consumption: max. 30 VA
Measuring principle:	Online potentiometric ISE	Outputs:	2 x 4-20 mA outputs for measured data Modbus RTU RS485
Measuring range:	0.1 ppb to 10 ppm	Alarms:	3 SPDT programmable potential free relays, N.O. or N.C.
Reproducibility:	± 0.2 ppb or ± 5%, whichever is greater, at constant temperature	Operating Temperature:	41 - 122 °F (5 to 50 °C)
Analysis frequency:	Continuous operation, delay time T90 180 sec (0 to 10 ppb)	Humidity:	10 to 85% non-condensing (indoor use, outdoor installation only possible with protective cabinet or shelter not included)
Sample:	Temperature: 41 - 113 °F (5 - 45 °C) pH in the range 4-11 Flow to internal reservoir: min 3 L/h – max 12 L/h Pressure: 5-15 psig Inlet connection: 6 mm (1/8-in.) barbed fitting for flexible tubing Outlet connection: 12 mm OD (1/2-in.)	Dimensions analyzer (H x W x D):	33.9 x 15.0 x 8.3 in / 862.4 x 380 x 210 mm
Calibration:	NA6-1: manual calibration (1 or 2 points) NA6-2: 2 points automatic calibration, Grab sample	Weight:	Approx. 44 lbs (20 Kg)
Installation:	Wall or rack mounting, in vertical position by fixing hinges.	Ingress Protection:	IP54



[www.ECDanalyzers.com](http://www.ECDanalyzers.com)

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