

MODEL CA6 - HYDRAZINE ANALYZER

Compact online colorimeter for the automatic measurement of Hydrazine

APPLICATION FIELDS

- Power plants
- Cooling water
- Water steam cycle
- Boiler feedwater
- Control and optimization of oxygen scavenger systems

Hydrazine is widely used in power generation plants to remove dissolved oxygen in boiler feed water and as a corrosion inhibitor.



ADVANTAGES / FEATURES

Dual compartment enclosure

To ensure complete separation between the electronics and the wet part.

One reagent configuration, low reagent consumption

Minimum operating cost by small reagent consumption.

Automatic calibration / validation / cleaning

Validation, cleaning and calibration are standard features which significantly reduce downtime and operator intervention ensuring the most accurate results are obtained.

Free selectable validation, cleaning and calibration intervals.

Color touchscreen user interface

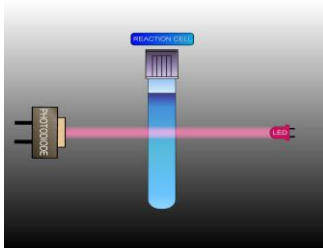
The CA6 Colorimeter is equipped with a graphic touchscreen interface showing measured values and status information. Easy access to menus and functions. Multiple languages. Integrated datalogger with USB download.

Factory tested, ready for installation and operation

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

Multiple streams

Dual streams version available. External Sequencer, switching up to 4 sample streams.



MEASUREMENT PRINCIPLE

Under acid conditions, hydrazine reacts with p-Dimethylaminobenzaldehyde to form a yellow-colored azine complex. The absorbance intensity is proportional to the hydrazine concentration in the sample and is determined at 430 nm.

TECHNICAL SPECIFICATIONS

Measured parameter:	N ₂ H ₄ (ppb, ppm, mg/l).	Dimensions (H x W x D):	23.6 x 15.0 x 8.2 in / 606 x 380 x 209 mm
Measuring principle:	Differential photometric absorbance.	Weight:	Approx. 44 lbs (20 Kg)
Measuring range:	0-500 ppb (µg/l) without dilution.	Power supply:	Voltage: 100 - 240 VAC 50/60 Hz standard or 24 VDC (option) Power consumption: max. 80 VA
Reproducibility:	± 1 ppb or ± 3%, whichever is greater	Outputs:	2 x 4-20 mA outputs for measured data Modbus RTU RS485
Analysis frequency:	Freely programmable, batch near-continuous analysis.	Alarms:	4 SPDT programmable potential free relays
Cycle time:	10 minutes, including conditioning before analysis cycle and rinsing after measuring.	Digital input:	Remote start / stop
Reaction cell:	Temperature heated	Operating Temperature:	41 - 113 °F (5 - 45 °C)
Sample:	Pressure-free from overflow vessel Temperature: 41 - 113 °F (5 to 45 °C) Flow Rate: 80 to 500 mL/min Connection: 6 mm (¼-in.)	Humidity:	10 to 90% non-condensing (indoor use, outdoor installation only possible with protective cabinet or shelter not included)
Drain:	Pressure-free, atmospheric drain Connection: 12 mm (½-in.)	Installation:	Wall mount (standard), bench top support or panel mount (options).
N° of streams:	1, 2 with integrated switching valve 3, 4 with external sequencer	Ingress Protection:	IP54

