

# APA 6000™ PROCESS ANALYZER



*Advanced analysis  
for alkalinity,  
ammonium,  
low-range hardness  
or nitrate*



# YOU PUSH THE BUTTONS... THE APA 6000 PROCESS ANALYZER DOES THE REST

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## Input and data

Data retrieval and communication with the APA 6000 Process Analyzer are accomplished with the AquaTrend® Interface keypad and screen, mounted in the door of the analyzer. By adding a remote AquaTrend Interface, operators can monitor the instrument from another location. AquaTrend networking links powerful Hach instruments to simplify the task of monitoring and collecting process information.

Whether monitoring industrial effluent or drinking water, operators need a process analyzer they can rely on. Today's water treatment environment requires precise, around-the-clock control. Hach's new APA 6000™ Process Analyzer performs continuous, unattended analysis, both accurately and at a very affordable price. In fact, dollar for dollar, you simply won't find a better analyzer.

## It's never been easier to continuously control and monitor the treatment process

Designed for ease of use and minimal maintenance, APA 6000 Analyzers are easy to install, configure and calibrate, and require only a few minutes of attention each month. Comprehensive documentation simplifies installation procedures and illustrated, user-friendly manuals explain calibration routines, troubleshooting techniques and diagnostic tools. Once the instrument is installed and operating, you can go on to other things while the APA 6000 Analyzer's accurate, reliable sensors and advanced software do their work unattended.



### Ideally suited for:

- Wastewater
- Drinking Water
- Boiler Water
- Manufacturing Water
- Beverage Water
- Ultrapure Water

### Choose the model best suited to your application

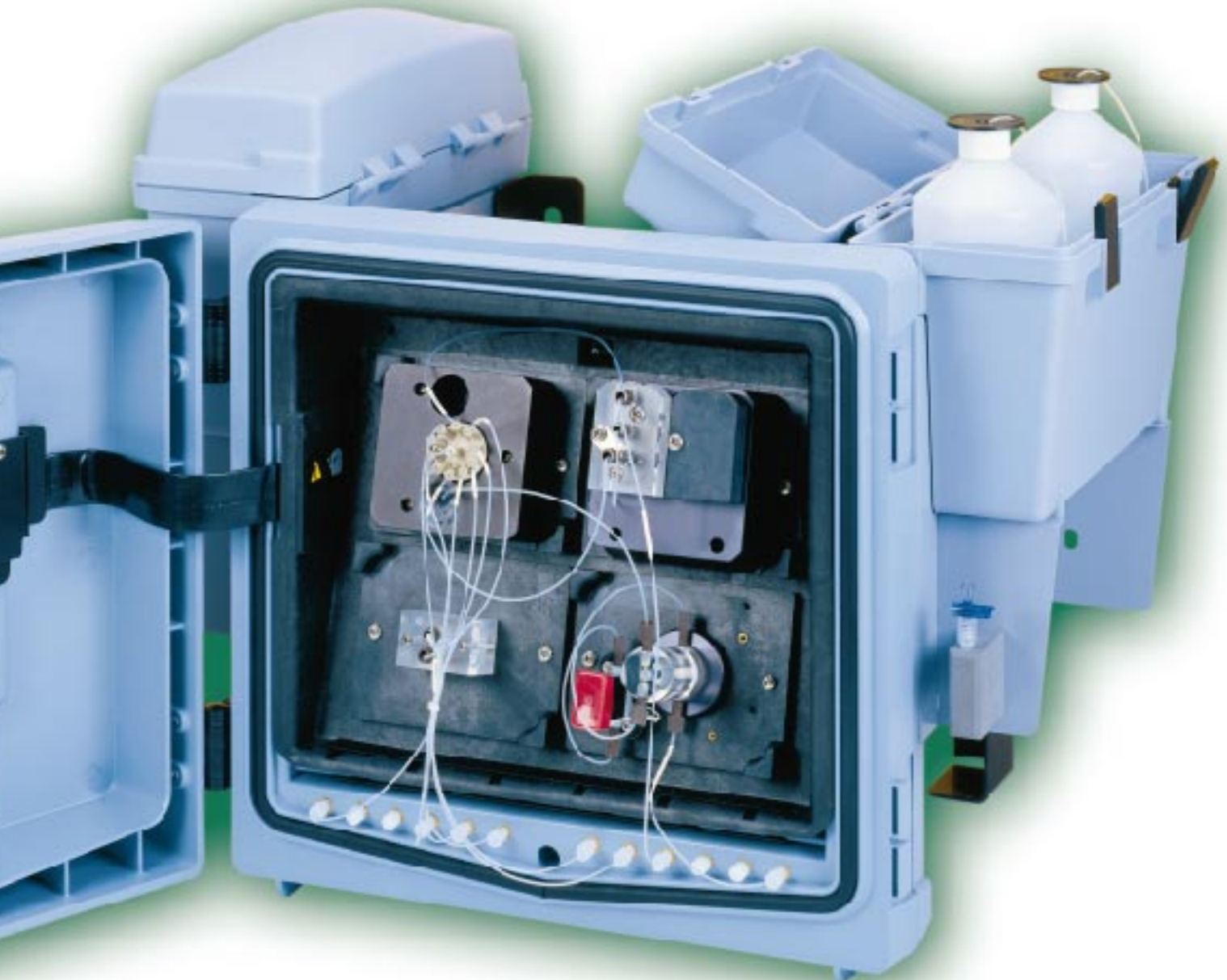
Parameter	Range
Ammonium	0.1 - 100 mg/L
Nitrate	0.1 - 100 mg/L
Alkalinity	1 - 1000 mg/L
Hardness	50 - 10,000 $\mu$ /L

### Design features offer flexibility

- Designed to continuously monitor either clean or dirty water
- Isolated, spill-proof reagent compartments
- Corrosion-resistant housing meets NEMA4X/IP66 industrial enclosure requirements
- Analyzer can be wall, panel or bench mounted
- Analyzer components are easily accessible for maintenance

### APA 6000 Analyzers save time and money by offering:

- Outstanding accuracy and reliable performance
- Minimal maintenance
- Unattended analysis
- Continuous sample flow design for fast analysis (Analyzer cycles every five minutes or less)
- Minimal sample and reagent consumption
- Easy to access analyzer components for simplified maintenance



## How It Works

The APA 6000 Analyzer is a microprocessor-controlled instrument designed to analyze different chemistries. Various models can be configured to perform water analysis for alkalinity, low-range hardness, nitrate and ammonium. The two basic measurement methods for the instrument are colorimetric and ion-sensitive electrode (ISE). Each analyzer consists of an auto burette(s), multi-position valve, a colorimetric or ion-sensitive electrode and the AquaTrend Interface. The auto burette dispenses sample into the analysis system, where it is injected through tubing to the multi-position rotary valve. The instrument switches the valve to the appropriate port, adds reagent, dispenses it to the mixing chamber and then into a detector module where concentration is determined. The detector then sends a signal to the AquaTrend Interface, which displays and stores the data. An analysis cycle takes less than five minutes. The instrument's grab sampling capability enables you to quickly test samples taken from points within a process stream, or run a quality insurance check by introducing a known standard. The APA 6000 Analyzer logs the results automatically and returns to program sequence after grab sample is completed.

## SYSTEM ACCESSORIES

Each model of the APA 6000 Analyzer is available with a wide range of optional system accessories, offering flexibility, expanded monitoring capabilities and maximized communication.

**Sample Sequencing Kit**— Built into the APA 6000 Process Analyzer interface, the Sample Sequencing Kit allows operators to convert any APA 6000 Analyzer into a multi-channel instrument for monitoring up to three sample streams with up to three valve configurations.

**Micro Filter Kit**— Ideal for turbid river water, wastewater, or samples with high levels of suspended solids. Capable of filtering down to 0.2 micron particle size.

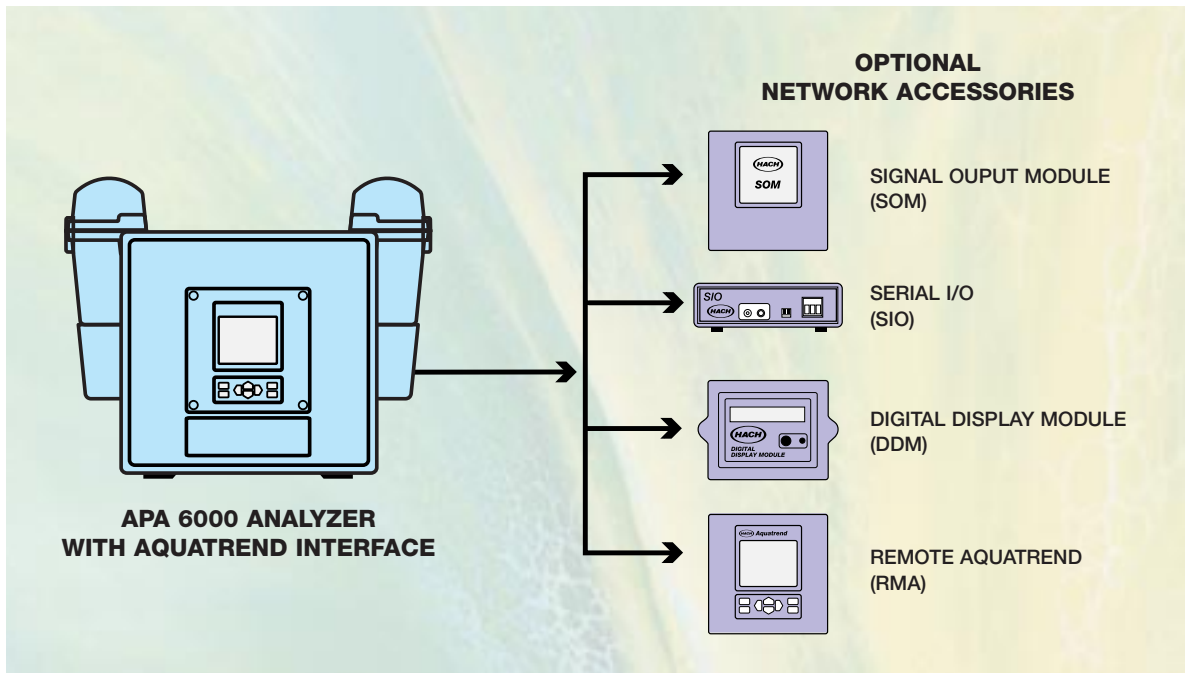
**Automatic Air Backflush Kit**— Provides programmable self-cleaning of the APA 6000 Analyzer's sample bypass filter. The Automatic Air Backflush Kit is ideal for wastewater treatment applications and samples with high solids or biogrowth content.

## How APA 6000 Analyzers Simplify Daily Operation

- ▶ *Accuracy, quick response and reliable performance*
- ▶ *Mechanically simple design for low-maintenance operation*
- ▶ *Easy to use with menu-driven interface*
- ▶ *Stores, graphs and displays measurements for up to 30 days*
- ▶ *Grab sample measurements can be taken without interrupting process flow*
- ▶ *Analyzer will sequence up to three sample streams*
- ▶ *Self-calibrating, self-cleaning and self-priming*
- ▶ *Minimal reagent consumption*
- ▶ *Self-diagnostics alert operator to alarm conditions in the instrument*

# THE AQUATREND NETWORK

## Smart Sensor Technology

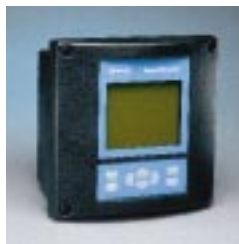


With a network configuration, each device can send commands to each other.

With the advent of Hach's AquaTrend® Network, it is now possible to link critical analytical instruments in a high-level communications network, providing real-time monitoring and data management from a central location. AquaTrend networking reduces your hardware investment, simplifies wiring requirements, and lays the foundation for efficient data management and control functions.

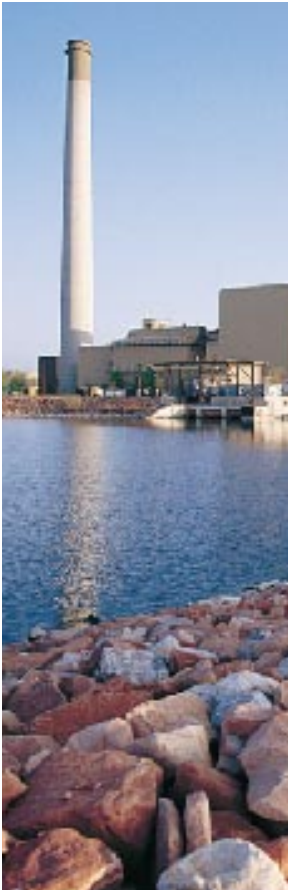
### AquaTrend Features and Benefits

- Remote monitoring capabilities
- Advanced datalogging capability
- Multi-lingual graphic interface with on screen prompting
- Interface offers programmable output capability for up to four PID control loops
- Self-test diagnostics
- Log of major system events
- Less wiring and lower system costs
- Expandable system
- Security lockout feature (supervisors can restrict access)



*AquaTrend Network components and accessories offer flexibility for installation and expand network communications and display capabilities.*

A single AquaTrend Interface can be networked with up to eight smart sensors (APA 6000 Analyzers) and additional display devices, sharing data to provide centralized monitoring and instrument control.



# THE APA 6000™ PROCESS ANALYZER

*Smart sensor technology for today and tomorrow—ease of use, minimal maintenance, and capabilities so advanced you can depend on it day and night to monitor and control your treatment process.*

## How to Find Out More

For current information, technical assistance and ordering assistance, call Hach at **800-227-4224** and ask for the Regional Sales Manager serving your area. (International customers see below for calling instructions.) Our knowledgeable representatives can identify areas where the APA 6000 Analyzer can improve your analysis strategies, and configure a complete system for streamlining your testing process. Call it a free consultation...and perhaps the best investment you'll ever make in the future of your plant.

## Service and Support that's Second to None

Once you install an APA 6000 Process Analyzer, you can count on Hach for the most attentive service support in the industry...by phone, e-mail, and in person.

*Call today to arrange for a consultation or demonstration. For a copy of our technical specification sheet, request the following APA 6000 Analyzer literature.*

Alkalinity Analyzer	Lit. No. 1503	Ammonium & Nitrate Analyzer	Lit. No. 1501
Ammonium Analyzer	Lit. No. 1501	Low Range Hardness Analyzer	Lit. No. 1502
Nitrate Analyzer	Lit. No. 1501		

For current price information, technical assistance and ordering assistance, contact the Hach office or distributor serving your area.



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