

# sc1000™ Software 3.0 Featuring GPRS and Modbus TCP/IP Protocols - Technical Features

## The sc Controller Platform

Hach goes beyond the standard 0/4-20mA signal to provide the widest digital communication capabilities in the world of continuous sensors and controllers for water and wastewater analysis. These sensors help with secure and efficient operation of treatment plants. They can be integrated easily into common Programmable Logic Controllers (PLC), Stored Program Controls (SPC) and Asset Management Systems (PAM).

## Advanced Digital Communication Protocols on sc1000 Software 3.0:

- *MODBUS TCP/IP*
- *Ethernet LAN, Web Server, GPRS, VPN*

## Most advanced sensor portfolio for:

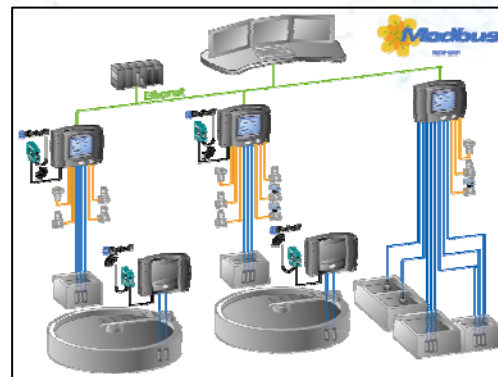
pH, ORP, Conductivity (conductive), Conductivity (Inductive), Dissolved Oxygen (LDO), Dissolved Oxygen (Galvanic), Chlorine (free and total), Chlorine dioxide, Ozone, Low-range Turbidity, Turbidity, suspended Solids, Sludge concentration, Sludge level, Ammonium, Nitrate, Phosphate (ortho), Phosphate (total), SAC, TOC, Oil in Water



## MODBUS TCP/IP:

### Advanced Digital Communication Protocols on sc1000 Software 3.0:

- Simple and cost effective integration into nearly all SCADA and PLC systems
- Compatible with major OPC server software e.g., Kepware, Matrikon etc.
- Support 24/7 data streaming for up to 5 systems in parallel
- Up to 5 x 60 measured values per device in one read request
- Use of standard TCP/IP allows the use of standard components like Wifi, Fiber Optic, GPRS remote cellular communication



## WEBSERVER built-in:

### Access to sensors, analyzers and controllers using a common Internet Browser:

- Simple and full remote access to all sc sensors and analyzers for
  - Diagnostics
  - Parameterization
  - Configuration
- Fully compatible with any web browser on any operating system
- User interface in 25+ languages



## GPRS (Quad-band) built-in:

### Remote Access through the display module:

- Built-in open VPN functionality for secure data transmission
- Access and stream data online
- Download instrument data logs and event logs for analysis and change instrument settings remotely
- Configure the sc1000 controller to send email or SMS messages for alarms and warnings from all sensors and internal components



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*In the interest of improving and updating its equipment, Hach Company reserves the right to alter specifications to equipment at any time*