

# sc100™ Digital Controller

## Controllers Plug and play up to 2 Hach digital sensors

Controllers



### **One Controller for One or Two Sensors**

The Hach sc100 Controller receives data from up to two sensors. Use any of Hach's line of digital sensors for a wide variety of parameters.

### **One Controller for One or Two Parameters**

Not only can the sc100 controller be used for up to two sensors, but the sensors need not be the same. Mix and match any combination of parameters.

### **Plug-and-Play Operation**

There's no complicated wiring or set up procedures with the sc100 controller. Just plug the sensor in and it's ready for use without special ordering or software configuration.

### **Flexible Communication Options**

Communications using RS-485/MODBUS®, RS-232/MODBUS®, or PROFIBUS DP protocols or the wireless infrared port are available. (Contact your Hach representative for other communication protocols.)

### **Simple, Reliable Data Collection**

A built-in data logger collects measurements at user selectable intervals, as well as calibration and verification points, alarm history, and instrument setup changes for up to 6 months. With a two-year warranty, the Hach sc100 Controller is built to last.

The sc100 is certified compliant for Class1, Division 2 hazardous locations. Note that compliance is only maintained with the appropriate compliant sensors.



The sc100 controller has a big and bright display and clearly arranged pushbuttons for simple operation.



sc100 with Aluminum Sun Shield, Prod. No. 1000G3088-001

# sc100™ Digital Controller

Controllers

When combined with the Hach sc100™ and sc1000™ digital controllers, the Hach family of digital sensors/analyzers gives you reliable and accurate measurement for a wide variety of parameters.



The sc100 digital controller is compatible with digital sensors/analyzers for measurement of the following parameters:

- Ammonium
- Chlorine, Free
- Chlorine Dioxide
- Conductivity
- Dissolved Oxygen
- Luminescent Dissolved Oxygen
- Nitrate
- Ozone
- pH/ORP
- Phosphate
- Sludge Level
- Suspended Solids
- Turbidity
- UV Absorbance

Prod. No.	Description
LXV401.52.00002	sc100 Controller Standard
LXV401.52.01002	sc100 Controller with RS-232 (MODBUS)
LXV401.52.02002	sc100 Controller with RS-485 (MODBUS)
LXV401.52.03002	sc100 Controller with PROFIBUS DP
LXV401.52.70002	sc100 Controller 24 Vdc

POWER CORDS	
5448800	Power Cord with strain relief, 125 Vac
5448900	Power Cord with strain relief, 230 Vac, European-style plug

ACCESSORIES	
LZX961.54	Polycarbonate Sun Shield for sc100 controller, includes hardware
1000G3088-001	Aluminum Sun Shield for sc100 controller, includes hardware

Many more combinations are available, please call 1-800-227-4224 or visit [www.hach.com](http://www.hach.com) for more information.

For more information, call to request Literature #2403, or visit [www.hach.com](http://www.hach.com)

## Specifications\*

### Ambient Conditions

#### Operation

With less than 7 W sensor load:  
-20 to 60°C (-4 to 140°F); 0 to 95% relative humidity, non-condensing

With up to 25 W sensor load:  
-20 to 40°C (-4 to 104°F); 0 to 95% relative humidity, non-condensing

#### Storage

-20 to 70°C (-4 to 158°F); 0 to 95% relative humidity, non-condensing

### Power Requirements

#### AC Powered sc100 model:

100-230 Vac ±10%, 50/60 Hz;  
Power 15 W with 7 W sensor/network card load, 37 W with 25 W sensor/network card load

#### 24 Vdc Powered sc100 model:

24 Vdc-15%, +20%; Power 16 W with 7 W sensor/network card load, 34 W with 25 W sensor/network card load

### Display

Graphic dot matrix LCD, 128 x 64 pixels with LED backlighting

### Relays

Three SPDT, user-configurable contacts rated 100 to 230 Vac, 5 Amp resistive maximum

### Outputs

Two analog 0/4-20 mA, maximum impedance 500 Ohms

### Control

PID, PWM, High/low phasing, setpoint, deadband, overfeed timer, off delay, and on delay

### Alarms

Low alarm point, low alarm point deadband, high alarm point, high alarm point deadband, off delay, and on delay

### Communications (Standard)

Datalog access and software upgrade access via standard RS-232 service port and wireless infrared port

### Communications (Optional)

RS-232 (MODBUS): Configure and retrieve measured data for one analyzer using IBM-compatible PC  
RS-485 (MODBUS) & PROFIBUS DPV1: Advanced communications/networking with PLC or SCADA system directly from analyzer.

### Memory Backup

All user settings are retained indefinitely in memory (non-volatile) (EEPROM)

### Mounting Configurations

Surface, panel, and pipe (horizontal and vertical)

### Enclosure

NEMA 4X/IP66; metal enclosure with corrosion-resistant finish

### Dimensions

1/2 DIN; 144 x 144 x 150 mm (5.7 x 5.7 x 5.9 in.)

### Weight

1.6 kg (3.5 lbs.)

### Certifications

ETL listed (cETLus marked) to Canadian and US General Safety and Hazardous (Class I Div. 2) Locations

\*Subject to change without notice.

The sc100 digital controller is compatible with digital sensors for measurement of a wide variety of parameters. See pages 397-467 for Hach sc digital sensors.

Find it here... Buy it today on [www.hach.com](http://www.hach.com)

U.S. customers only.

