SC1000 Display Module, Multi-Parameter Universal Controller

Product #: **LXV402.99.00002**

ZAR Price: Contact Hach
Available

A fully modular system consisting of a display module and one or more probe modules.

The Hach SC1000 Multi-parameter Universal Controller is a state-of-the-art modular controller system. Use it directly with 8 sensors or network several together to accommodate many more sensors and parameters.

The SC1000 consists of a Display Module and one or more Probe Modules. The SC1000 Display Module is intuitive, with an easy to use interface and large color touch-screen display that can be used for any number of parameters. One Display Module controls one or several Probe Modules connected by a digital network. The Display Module is fully portable, and can be disconnected and moved anywhere within the network. The Display Module is also available with GSM/GPRS, ethernet and TCP/IP capability.

Each SC1000 Probe Module provides power to the system and can accept up to 8 digital sensors/expansion boards. Probe Modules can be networked together to accommodate up to 32 digital sensors/expansion boards attached to the same network.

Prognosys is a predictive diagnostic system that allows you to be proactive in your maintenance, by alerting you to upcoming instrument issues. Know with confidence whether changes in your measurements are due to changes in your instrument or your water.

More confidence in your instrument’s performance
Available exclusively on the SC1000 controller, Prognosys predictive diagnostics uses innovative multivariable diagnostic software to read multiple inputs from your instrument and alert you to the instrument's overall performance. An easy-to-read dashboard provides instant indication of measurement reliability and service requirements.

Plug and Play operation
There’s no complicated wiring or set up procedures with the SC1000 controller. Plug any Hach digital sensor into a Probe Module and it’s ready for use. No special ordering or software configuration is needed.

Communication options to fit any application need
The SC1000 controller features state-of-the art Modbus TCP/IP communications protocol for seamless integration into a network of devices that support TCP/IP sockets. Use a standard Ethernet cable or connect wirelessly using GSM/GPRS to communicate with your SCADA, PLC or other network. The SC1000 also offers up to 12 analogue outputs for measured values and up to 12 analog or digital values from non-digital sensors.

Expandable and upgradable
The SC1000 controller can adapt to your needs. Add or change probes without having to change the controller. Plus, with a single Display Module, additional Probe Modules and associated sensors can be added or removed depending on operational needs. Fully upgradable software ensures that this system will not be obsolete. Hach service plans are available.

Specifications

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

Analogue Output Functional Mode:	PID, high/low phasing, setpoint, deadband, overfeed timer, off delay, on delay
Certifications:	North American Certifications: cTUVus to UL 61010A-1 and CSA C22.2 No. 1010.1 FCC ID QIPMC56 / IC ID 267W-MC56 European Certifications: CE per 73/23/EEC and 89/336/EEC TUV-GS to EN 61010-1 EN 61326 Amd's 1 & 2
Communication:	Modbus (RS485): Advanced communications/networking with PLC or SCADA system directly from analyzer Profibus DP/V1 (certified) GSM/GPRS Quad-band cellular module (FCC and IC approved, EU and US only) Ethernet service port, RJ45, 10 MB/s
Dimensions (H x W x D):	200 mm x 230 mm x 50 mm
Display:	QVGA, 320 x 240 pixels, 256 colours, touch-screen
Display Viewing Area:	111.4 x 83.5 mm
Enclosure rating:	IP65
GSM option:	Without GSM Module
Inputs:	Up to 12 analogue 0-20 mA, maximum impedance 500 Ohms per probe module. Additional inputs are available with additional probe modules.
Material:	Enclosure: Polycarbonate
Material Enclosures:	Polycarbonate
Mounting:	Surface, panel, and pipe (horizontal and vertical) with optional sun shield
Operating temperature range:	-20 - 55 °C / 0 - 95% relative humidity, non-condensing
Output Opportunities:	Up to 12 analogue 0/4-20 mA, maximum impedance 500 Ohms per probe module. Additional analogue outputs with additional probe modules. Optional digital communcations via Modbus (RS485) and Profibus DP/V1.
Power requirements (Hz):	50/60 Hz
Power requirements (Voltage):	120 - 230 VAC
Relays:	Up to four SPDT, user-configurable contacts rated 100 to 230 VAC, 5 Amp resistive maximum per probe module. Additional relays are available with additional probe modules.
Sample Flow Rate:	400 - 600 mL/min
Sample inlet:	1/2" OD Tube Connection
Storage conditions:	-20 to 70 °C / 0 to 95% relative humidity, non-condensing
Warranty:	12 months
Weight:	approx. 1.2 kg (depending on configuration)
What's included?:	Display module with communication (as appropriate), basic user module

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