



SC1000 Multi-Parameter Universal Controller Display Module with Modbus TCP/IP

Product #: LXV402.99.10002
ZAR Price: Contact Hach
Ships within 3-5 weeks

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: European Certifications:

CE per 73/23/EEC and 89/336/EEC

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| | 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): | 315 mm x 242 mm x 150 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: | Plastic |
| 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 communications via Modbus (RS485) and Profibus DP/V1. |
| Power requirements (Hz): | 50/60 Hz |
| Power requirements (Voltage): | 100 - 240 VAC, 24 VDC |
| 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. |
| Storage conditions: | -20 to 70 °C / 0 to 95% relative humidity, non-condensing |
| Warranty: | 12 months |
| Weight: | Approximately 6.5 kg (depending on configuration) |
| What's included?: | Display module with communication (as appropriate), basic user module |

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