

sc1000™ Software 3.0

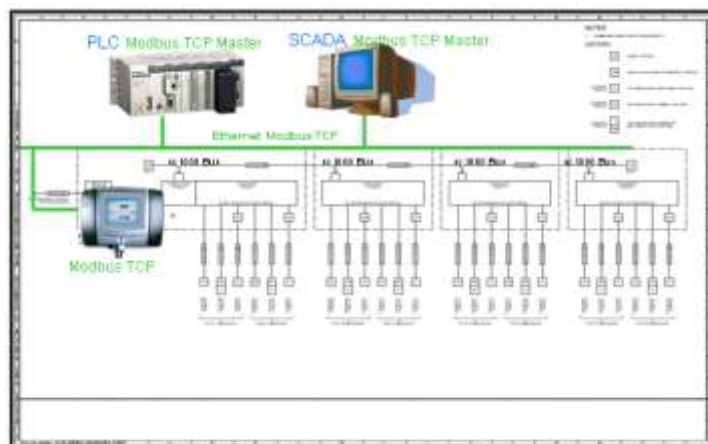
Featuring GPRS and Modbus TCP/IP Protocols

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Reduce Costs

Using the Hach sc1000 Multi-parameter Universal Controller with Modbus TCP/IP communications protocol reduces costs significantly compared to traditional data communication systems.

- Eliminates miles of mA cables by using one Ethernet cable.
- Reduces hundreds of hours spent checking analog mA loops.
- Eliminates expensive wiring, cables and converters (input/output modules, gateways, etc.) when using digital BUS systems.
- Saves thousands of dollars in engineering hours by using Ethernet to transmit industry-proven Modbus protocol.



Situation

To facilitate process control at the treatment plant, the customer needed to install 24 additional sensors. However, the existing infrastructure did not allow for additional sensors, so a major re-design would have been necessary. The initial design, based on 24 sensor/transmitter loops, would have required a new PLC and/or an extended I/O system.

Customer solution

The final design did not require any extension of the I/O system, the wiring, or any additional cabinets. The additional 24 sensors were installed using a sc1000 sensor network, connecting via Industrial Ethernet (MODBUS TCP/IP) into the existing PLC system with no further investment. The sc1000 display module was connected via patch cable to an existing Ethernet switch in the control room.

Summary

- sc1000 V3.0 with MODBUS TCP/IP allowed the customer to add the extra sensors for significantly less than expected:
- No new PLC or I/O system needed
- No new wiring or additional cabinets
- Reduced engineering time and more efficient remote set-up of instruments
- **Saved 70%** in costs compared to the initial design

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