

Intra-Link™ LC2000 Logic Controller

The Intra-Link™ LC2000 system combines on board I/O with a state of the art open controller. The LC2000 was developed specifically for smaller, remote applications in the water and wastewater industry.

This innovative controller combines robust I/O, open architecture and powerful communications capabilities. This combination produces an economic, feature rich solution that is ideal for use in remote control applications. Siemens Water Technologies has embedded it's eighty plus years of water and wastewater knowledge into special purpose function blocks so the customer will get a consistently programmed system built on proven optimized algorithms.

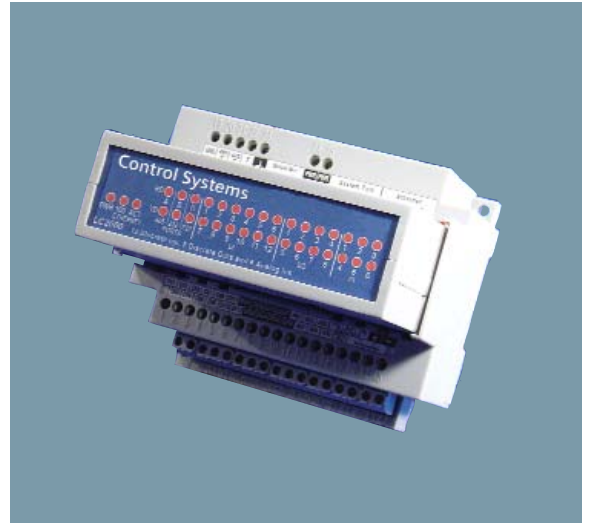
The Intra-Link™ LC2000 is the perfect building block for creating an effective control and telemetry system. The hardware includes high performance CPU, large memory, powerful programming tools, 26 on-board discrete and analog I/O and built-in Ethernet. The optional, user-friendly operator interface uses both text and graphics to display the information an operator needs to effectively run a system. An operator can easily view operating parameters, change set points, view and acknowledge alarms, review alarm history, and view historical trends through a high contrast, backlit display with an ergonomic 20 key keypad.

The controller can be programmed locally or remotely via multiple access options. These options include telephone dial-up connection using a standard modem, or an Ethernet network connection.

The LC2000 can communicate to older Consolidated Electric (D620), Autocon (Microcat) and Dynamic Systems (PLTU) controllers, providing a seamless migration path for customers with these systems. The IntraLink™ LC2000 has the flexibility for now and the future. Cost effective on-board I/O (expandable up to 256 points), extensive communications capabilities and powerful control ability make the LC2000 ideally suited for remote (RTU) applications.

This innovative controller combines an industry standard control programming language (IEC61131-3) with Modbus and DF1 communications to deliver a truly open architecture.

The primary focus of the controller is to be open, robust, flexible and useable. This product has been developed for the water and wastewater industry, to provide a quality driven solution now and in the future.



Intra-Link™ LC2000 Features

- Telephone, wireless, Ethernet and Internet connectivity.
- Windows based configuration tools.
- MTU to RTU uploads and downloads.
- 26 I/O points on-board (12 DI, 8 DO, 6 AI)
- Scalable solution (up to 256 local I/O)
- Shared resource database.
- Advanced data logging capabilities resident in the controller
- Alarm logging resident in the controller.
- Supports remote access via dial-up or network.
- Advanced communication capabilities.
- Multiple communication ports.
- High speed Ethernet connection.
- Flexible radio communications.
- Supports open and native protocols.
- Industry standard IEC 61131-3 programming software.
- Embedded specialized water and wastewater function blocks.
- Fast controller speed.
- Large amount of controller memory.
- Small footprint runs on 10-30 Vdc.
- Certified hardware.
- Ergonomically designed keypad.
- Back lighted, high contrast display.
- Pre-configured operator interface display formats.
- Three levels of operator interface security.
- Graphical trend data.
- View and acknowledge alarms locally.
- Resident 1000 entry event log.
- Detailed system diagnostics.
- Ability to force outputs and simulate inputs to locally test operations.
- Intrusion detection to alert unwanted access.

Controller	
Processor	Industrial PowerPC (32 bit data bus)
Operating system	Embedded LINUX
Dynamic memory (RAM)	16 Megabytes – 32 bit
Program memory (Flash)	16 Megabytes
Datalogging memory (RAM)	512K
Configuration software	IsaGRAF IEC 61131-3
Maximum local I/O	26 points (12DI, 8DO, 6AI)
Maximum distributed I/O	256 points
Ethernet port	10/100BaseTx
Serial ports	Two RS232 and one RS485
Input power	10 – 30 VDC
Input current	100 mA @24 VDC
Temperature	-40 to 70°C
Humidity	5% to 95% RH (non-condensing)
Hazardous locations EN50021 Zone 2	UL 1604, CSA C22.2/213, Cenelec
Mounting	DIN rail (EN50022) or flat panel

Operator Interface	
Display	128 x 64 pixel (backlit)
Distance from Controller	10 feet
Power Supply	Supplied by Controller
Temperature	0 to 50°C
Humidity	15% to 85% RH (non-condensing)
Physical Dimensions	5.7" x 8.0"
Environmental rating	IP65/Nema 4

Siemens
Water Technologies
1239 Willow Lake Boulevard
Vadnais Heights, MN 55110
800.224.9474 phone
651.766.2700 phone
651.766.2701 fax

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