

Intra-Link™ LC3000 Logic Controller

The Intra-Link™ LC3000 is a state of the art open Controller developed specifically for the water and wastewater industry.

This innovative Controller focuses on combining robust technologies with an open architecture. This combination produces a cost competitive solution that is both flexible and feature rich. 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™ LC3000 is the cornerstone of your control system. The hardware includes high performance CPU, large memory, powerful programming tools, scalable I/O and built in Ethernet. A full-featured battery handling circuit including float charging, voltage monitoring and low voltage cutout is built into the Controller.

The optional, user-friendly operator interface uses both text and graphics to display the information your operator needs to effectively run your 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 LC3000 can communicate to older Consolidated Electric (D620), Autocon (Microcat™) and Dynamic Systems (PLTU) controllers, providing a seamless migration path for customers with these systems.

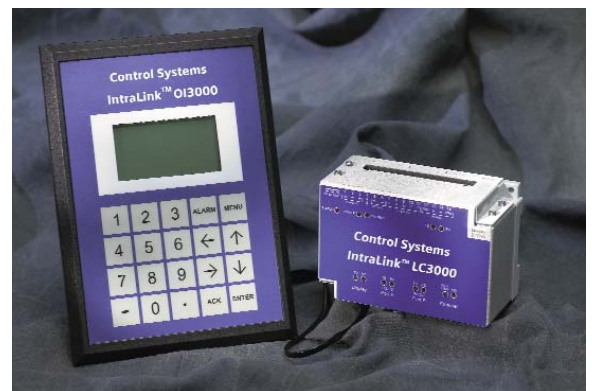
The Controller has multiple local and remote access options. This includes telephone dial-up connection using a standard modem, local and remote network connection or the use of the Internet from any location.

The Intra-Link™ LC3000 has the flexibility for now and the future. Cost effective modular I/O and extensive communications, combined with advanced data handling capabilities makes the LC3000 suitable for small to large systems alike.

This Controller is scalable so your control system can grow without replacing or re-working your equipment.

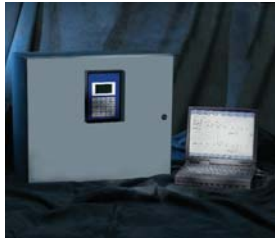
This innovative Controller combines an industry standard control programming language (IEC61131-3) with Modbus and DF1 communications to deliver a truly open architecture.

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 LC3000 FEATURES

- Telephone, wireless, Ethernet and Internet connectivity.
- Windows based configuration tools.
- MTU to RTU uploads and downloads.
- Scalable solution (up to 1,000 local I/O and 10,000 remote I/O per Controller).
- 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.
- Modular controller design.
- Fast controller speed.
- Large amount of controller memory.
- Small footprint runs on 10-30 Vdc.
- Advanced battery back-up features.
- Certified hardware.
- Ergonomically designed keypad.
- Back lighted, high contrast display.
- Pre-configured operator interface display formats.
- Three levels of operator interface security.
- View graphical trend data.
- View and acknowledge alarms locally.
- Resident 1000 entry event log.
- View 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)	32 Megabytes – 32 bit
Program memory (Flash)	32 Megabytes
Datalogging memory (RAM)	512K (battery backed)
Configuration software	IsaGRAF IEC 61131-3
Maximum local I/O	1024
Maximum distributed I/O	10,000
Ethernet port	10/100BaseTx
Serial ports	Three 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 (Class 1, Div 2, Groups A,B,C,D)
Mounting	DIN rail (EN50022) or flat panel mount

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

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