LOGIC PROGRAMABLE CONTROLLER
LC800

Eighth generation of SMAR controllers

LC800 is a controller with Modbus-HSE protocol that provides higher connectivity and application flexibility to the system. Through I/O cards, with HART protocol and Modbus devices, centralized on discrete control via ladder logic, allows a single and integrated system. The two Ethernet channels assures higher control availability, deterministic peer-to-peer communication between CPUs, supervision, and it supports redundancy, providing to the process high security level.

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Experience

The LC800 is the eighth generation of Smar controllers and our experience in several industrial segments is reflected on this controller. It is recommended for the most diverse types of installations, from simple to complex, and in a wide range of industries such as petrochemical, water treatment, pharmaceutical, food, sugar, power generation, steel, among others.

Features and limits for CPU800 module

- 2 Ethernet 10/100 Mbps ports
- Support for Flexible Function Block (FFB)
- 128 parameters can be linked externally via HSE links;
- Webserver;
- Modbus Gateway;
- Redundant operation;
- Real Time Clock (RTC) and watchdog;
- It has supervision for up to 2000 points per second.

Hardware

To preserve customers' investment, the CPU800 module accesses the same I/O cards used in the LC700 system. Through the IMB (Inter-Module Bus), present in the rack where the CPU module is mounted, up to 16 racks R-700-4A or DF93 can be interconnected, each containing up to 4 cards. In case the system has a redundant controller, the DF92 rack should be used. If DF92 is used, another 16 DF93 racks can be used. Additionally, there may be necessary other power supplies depending on the number of cards.

Technical specifications	
CPU800: Logic Programable Controller	
Description	Expandable control platform formed by sets of independent processors, distributed in a high-speed horizontal communication.
Functionality	Process and manufacturing control.
CPU redundancy	Hot standby and class D3-Foundation™ redundancy
Communication Redundancy	Dual redundant Ethernet.
Power Supply Redundancy	Self-switching, no-impact redundancy.
Processor Scan Time	10~500 ms, user configurable.
CPU Memory Backup Capacity	10 years
Power Supply	DF50: 90~264Vac (50~60Hz) or 127~135Vdc DF56: 20~30Vdc

All necessary software tools are available on Studio302

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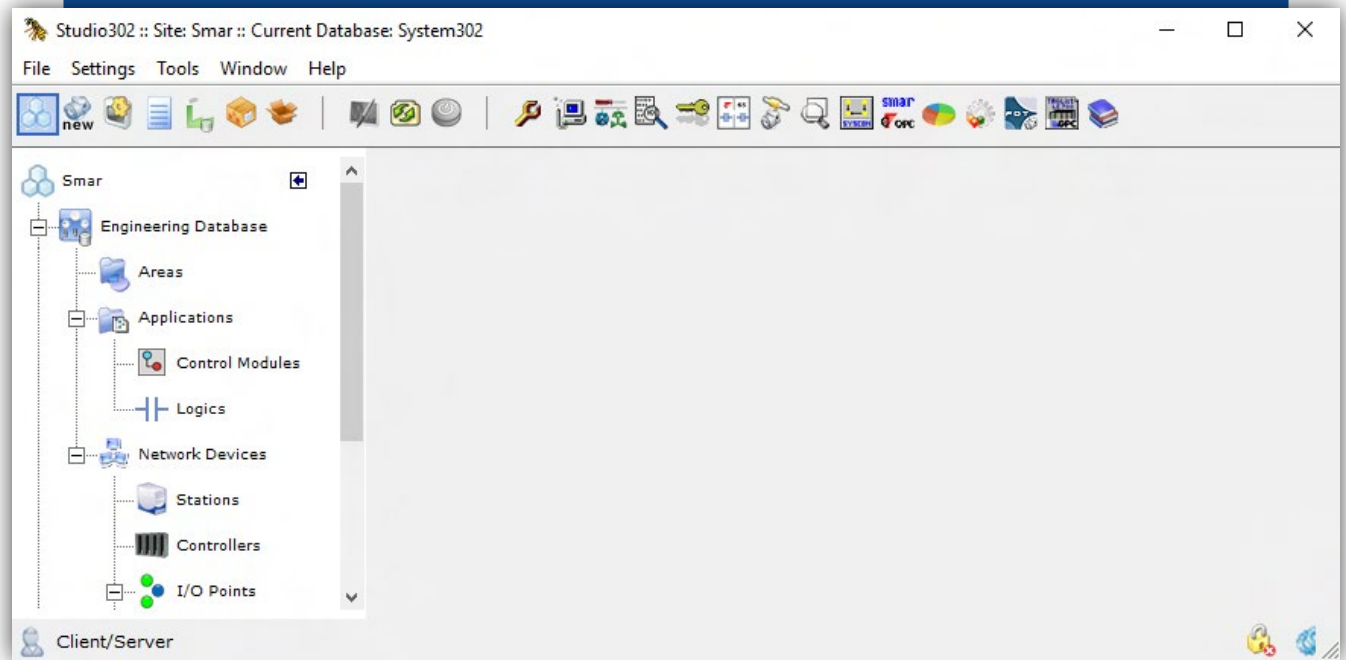
LC800

Logic Programable Controller

Consult our subsidiary

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