PACKAGED CONTROLLERS

S7-1200 MICRO BOX



A bolt-in control workhorse for real-world equipment environments. The Micro Box is a compact, fully engineered UL 508A industrial control panel that delivers Siemens S7-1200 control in a weather-tight Type 4X package — ready to mount, wire and run. Built for pumps, doors and process skids, it can ship with lead/lag pump logic already loaded and tested.

Key features

- Siemens SIMATIC S7-1200 G2 CPU 1212C (DC/DC/DC) with SM 1221, SM 1222 and SB 1231 expansion
- Siemens SIMATIC KTP400 Basic HMI, door mounted
- Optional lead/lag pump control logic, pre-developed and tested
- **Voltage-free relay outputs** — PLC transistor outputs drive isolation relay modules, giving dry changeover contacts you can switch at any voltage up to 250 V AC/DC, 6 A
- 4–20 mA analog level or pressure input
- Siemens SITOP 24 VDC control power, UL 489 branch protection
- PROFINET and Modbus TCP/IP communications
- Optional Ewon Flexy 205 router for secure remote access
- Moisture monitoring and enclosure heating
- UL Type 4, 4X, 12, 13 / IP66 enclosure, suitable for wash-down and outdoor duty
- Labeled terminal blocks, grounding bars and structured wiring per UL 508A / NFPA 79
- Full drawing package supplied with every unit

Specifications

Model number	**LL-4X-S71200**
Input power	**120 VAC, 1-phase, 60 Hz**
Full load current	**4 A max**
Main protection	**10 A UL 489 miniature circuit breaker, 14 kA**
Control power supply	**24 VDC, 5 A (Siemens SITOP PSU4200)**
Short-circuit current rating	**5 kA**
Thermal management	**Moisture monitoring and heating**

PLC	**Siemens SIMATIC S7-1200 G2, CPU 1212C (DC/DC/DC)**
Digital I/O	**24 DI, 22 DO (8 DI + 6 DO on-board; SM 1221 16 DI, SM 1222 16 DO)**
Analog input	**4 AI, SB 1231 (±10 V, ±5 V, ±2.5 V, 0–20 / 4–20 mA)**
HMI	**Siemens SIMATIC KTP400 Basic**
Device outputs	**Up to 7 device run outputs plus system running and system fault, as dry SPDT contacts**
Output contact rating	**250 V AC/DC max, 6 A continuous, 10 A inrush (4 s)**
Communications	**PROFINET / Modbus TCP/IP**
Remote access	**Ewon Flexy 205 router (option)**
Enclosure rating	**UL Type 4, 4X, 12, 13 · IEC 60529 IP66**
Certification	**UL 508A**
Weight	**35 lb**
Country of origin	**USA — Winston-Salem, NC**

Standard lead/lag control logic

When supplied with the pre-developed lead/lag option, the following functions are loaded and tested before shipment, removing custom programming from your startup schedule. All I/O is defined and documented in the supplied drawing package.

Function	Detail
Device run outputs	Up to 7 devices
Device running feedback	Digital input per device
System control modes	Auto and standby
Fault handling	Group fault detection
Analog process signal	4–20 mA level or pressure
Status indication	System running, system in fault

Configuration options

Option	Choices
Remote access device	Add Ewon Flexy 205 router — or decline
Lead/lag software	Add pre-developed lead/lag logic — or decline

Ordering. Standard configurations are available for direct online purchase. For purchase orders, custom modifications or application support, contact THINK-PLC to configure the solution to your requirements. All products are made to order; lead times vary with specification and order volume. Freight is billed separately and is not included at checkout — we will contact you after your order with a freight quote and delivery options, and schedule shipment after approval.