

IPS CONTROLLER 5000 HVAC Variable Speed Pump Control Unit

The IPS Controller 5000 is an automated control device designed specifically for HVAC chilled water and heating water pumping applications. The IPS Controller 5000 is capable of operating up to four variable speed pumps, configured for either parallel or standby operation. During setup, the easy-to-use IPS Controller 5000 leads the user through a series of menu-driven questions to select the appropriate pump sequencing speed control, and safety related pump system functionality. In addition the IPS Controller 5000 can be programmed with custom logic for project-specific requirements. The IPS Controller 5000 is available in three standard sizes:

- IPS Controller 5001 - up to 5 zones**
- IPS Controller 5002 - up to 8 zones**
- IPS Controller 5003 - up to 11 zones**



Standard Features

- A large-sized touchscreen interface (5.7")
- 115 V AC, 60 Hz power connection
- On-screen menu-driven operator interface
- Manual or automatic system control (H-O-A selection)
- Remote or local start/stop mode of operation
- Field password security
- Fault memory and alarm logging/history
- Adjustable PID control
- NEMA 1 rated enclosure
- UL Listed and CSA Certified
- Internal circuit breaker protection
- Automatic or manual pump alternation
- End-of-curve pump run-out protection
- 3 standard alarms: (1) drive, motor, or pump failure, (2) system fault, (3) zone signal fault
- Logic outputs for VFD automatic by-pass control
- Digital inputs for pump differential pressure switches
- Output for remote alarm/horn signal
- Input for silencing of remote alarm/horn
- Separate input screen for remote zone setpoints
- Separate input screen for input of differential pressure sensor operating range (psi or feet)
- Separate operating status display of pump status, pump speed(s), and drive status
- Separate status screen for remote zone signals, zone faults, zone setpoint, and active control zone
- Embedded logic to prevent hunting, pump flow surge, and motor overloading
- Manual control screen for fixed-speed, by-pass, or selected variable speed settings
- Secure front cabinet door with lock and key
- Diagnostic test of CPU, RAM, and Flash memory
- Supports multiple communications protocols: LonWorks, Modbus, Trend, Metasys, BACNet, and pLAN (an optional serial communications port is required)
- Ability to convert one zone input to a flow sensor input

Optional Features

- Serial communications port for communication with a Building Automation System or other devices
- Optional communications gateways for Webgate (TCP/IP) or others
- Serial communications port to receive full information from the variable speed drives (Modbus)
- Flash memory card-expandable to 6 MB
- Armstrong can load project-specific field adjustable data at the factory, including zone DP setpoints, sensor range, number of pumps, and duty/standby configuration
- 230 V power supply
- Modem for remote telephone communications or control
- NEMA 2, NEMA 4, NEMA 12 or EEMAC 2 rated enclosure
- Operating Range: -10°C to 60°C, %rH 90 non-condensing

Dimensions and Weights

Model	Width	Height	Depth	Weight
IPS5000	20 (508)	30 (762)	8 (203)	90 (41)

NOTE: Dimensions are in inches (mm). Weights are in lbs. (kg).

Armstrong Pumps Inc.
93 East Avenue
North Tonawanda, New York
U.S.A. 14120-6594
Tel: (716) 693-8813
Fax: (716) 693-8970

S.A. Armstrong Limited
23 Bertrand Avenue
Toronto, Ontario
Canada, M1L 2P3
Tel: (416) 755-2291
Fax: (416) 759-9101



Armstrong Pumps Limited
Peartree Road, Stanway
Colchester, Essex
United Kingdom, CO3 0LP
Tel: +44 (0) 1206 579491
Fax: +44 (0) 1206 760532

Armstrong Darling
9001 De L'Innovation, Suite 200
Montreal, Quebec
Canada, H1J 2X9
Tel: (514) 352-2424
Fax: (514) 352-2425