

## IPS Controller 5000

## SUBMITTAL

JOB: _____	REPRESENTATIVE: _____
_____	_____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
_____	APPROVED BY: _____ DATE: _____

### SYSTEM LAYOUT / CONFIGURATION

Number of pumps being controlled: \_\_\_\_\_ (Specify 1 to 4)

Number of remote DP/Temperature/Flow signals (zones): \_\_\_\_\_ (Specify 1 to 11)

### IPS CONTROLLER 5000 VARIANT

	Input Zone Capability	Output Pump Control Capability	Select Standby or Parallel Operation of Pumps (VFDs)
IPS5001	up to 5 Zones	up to 4 pumps	<input type="checkbox"/> IPS5001 Standby <input type="checkbox"/> IPS5001 Parallel
IPS5002	up to 8 Zones	up to 4 pumps	<input type="checkbox"/> IPS5002 Standby <input type="checkbox"/> IPS5002 Parallel
IPS5003	up to 11 Zones	up to 4 pumps	<input type="checkbox"/> IPS5003 Standby <input type="checkbox"/> IPS5003 Parallel



### STANDARD FUNCTIONALITY and CONSTRUCTION

- A large sized touchscreen interface (5.7")
- On-screen menu driven operator interface
- Manual or automatic system control (H-O-A selection)
- Remote or local start/stop mode of operation
- Field and factory password security
- Fault memory and alarm logging / history
- PID control loop, adjustable
- UL Listed and CSA Certification
- Internal circuit breaker protection
- Automatic or manual pump alternation
- End-of-curve run out protection
- 3 standard alarms: (1) pump failure, (2) zone signal fault, (3) any system fault
- Logic outputs for VFD automatic by-pass control
- Digital inputs for pump differential pressure switches
- Output for remote alarm / horn signal
- Input for silencer of remote alarm / horn
- Separate input screen for remote zone DP/temperature/flow sensor setpoints
- Separate input screen for input of differential sensor operating range (psi or feet)
- Separate operating pump display status, pump speed(s) and drive status
- Separate status screen of 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
- Key lockable front cabinet door

### DIMENSIONS and WEIGHTS

Model	Width	Height	Depth	Weight
IPS Controller 5000	24 (610)	24 (610)	8 (203)	90 (41)

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

### POWER SUPPLY

Volts	Frequency	Phase
<input type="checkbox"/> 115 Vac	60 Hz	single
<input type="checkbox"/> 230 Vac		
<input type="checkbox"/> 240 Vac	50 Hz	

### ENCLOSURE DETAILS

- NEMA 1
- NEMA 2
- NEMA 4
- NEMA 12
- EEMAC 2

### OPTIONS and ACCESSORIES

- A serial communications port for communication with a Building Automation System (standard communication options included with basic system are Modbus, LonWorks, Trend, MetaSys and pLAN)
- Serial communications port to receive full information from the variable speed drives (Modbus)
- Optional communications gateways for BACNet, and Webgate (TCP/IP)
- Armstrong shall enter the project specific field enter parameters
- Telephone communications modem and port
- Flash memory card expandable to 4 MB

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