ARMSTRONG®

IPS Controller 9200

SUBMITTAL

JOB: _____

REPRESENTATIVE: _____

ORDER NO: _____ DATE: _____

ENGINEER: _____ SUBMITTED BY: _____ DATE: _____

CONTRACTOR: _____ APPROVED BY: _____ DATE: _____

SYSTEM LAYOUT / CONFIGURATION

Number of pumps being controlled	_____ (Specify 1 to 6)
Number of remote Differential Pressure signals (zones)	_____ (Specify 1 to 18)

IPS CONTROLLER 9200 VARIANT

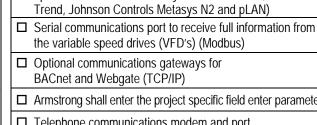|	Input Zone Capability	Output Pump Control Capability	Select Standby or Parallel Operation of Pumps (VFDs)
IPS Controller 9201	up to 6 Zones	up to 6 pumps	☐ IPS9201 Standby ☐ IPS9201 Parallel
IPS Controller 9202	up to 12 Zones	up to 6 pumps	☐ IPS9202 Standby ☐ IPS9202 Parallel
IPS Controller 9203	up to 18 Zones	up to 6 pumps	☐ IPS9203 Standby ☐ IPS9203 Parallel

STANDARD FUNCTIONALITY and CONSTRUCTION

- A large-sized (10.4") touchscreen operator interface
- 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
- Alarm and event logging of 2000 events
- Data trending with display screen
- PID control loop, adjustable
- UL Listed and CSA Approved
- Internal circuit breaker protection
- Automatic or manual pump alternation
- Remote start/stop of primary pumps by chiller or BAS
- Best Efficiency Point (BEP) staging
- Wire-to-water efficiency monitoring and staging
- 5 standard alarms: (1) drive, motor overload, or pump failure, (2) system fault, (3) zone signal fault, (4) primary pump fatal alarm, (5) secondary pump fatal alarm
- Separate operating status display of primary & secondary pump status, pump speed(s) and drive status
- Digital inputs for pump differential pressure switches on both primary & secondary pumps
- Output for remote alarm/horn signal
- Input for silencer of remote alarm/horn
- Separate input screen for DP, flow, temperature and kW sensors
- Separate input screens for differential pressure sensor setpoint and operating range (psi or feet)
- Logic outputs for VFD automatic by-pass control
- Logic outputs for constant primary run signals
- Constant primary run feedback signals to controller
- 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
- Multi-color schematic active display of mechanical room hydronic circuit indicating operating status
- 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

DIMENSIONS and WEIGHTS

Model	Width	Height	Depth	Weight
IPS Controller 9201	24 (610)	24 (610)	8 (203)	95 (43)
IPS Controller 9202				105 (48)
IPS Controller 9203	24 (610)	36 (914)	8 (203)	115 (52)

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

POWER SUPPLY

Volts	Frequency	Phase
☐ 115 Vac	60 Hz	single
☐ 230 Vac		
☐ 240 Vac	50 Hz	

ENCLOSURE DETAILS

- ☐ NEMA 1
- ☐ NEMA 2
- ☐ NEMA 3R
- ☐ 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, Johnson Controls Metasys N2 and pLAN)
- ☐ Serial communications port to receive full information from the variable speed drives (VFD's) (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 6 MB
- End-of-curve on secondary pumps using ☐ DP sensor or ☐ Flow sensor