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IPS Controller 9200

SUBMITTAL

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

SYSTEM LAYOU 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
- CE Marked with EMC and LVD compliance
- Internal circuit breaker protection
- Automatic or manual pump alternation
- · Remote start/stop of primary pumps by chiller or BMS
- 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
- · IP54 Enclosure with Door Interlocked Isolator
- · Diagnostic test of CPU, RAM and Flash memory

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DIMENSIONS and WEIGHTS				
Model	Width	Height	Depth	Weight
IPS Controller 9201	600	800	250	43 KG
IPS Controller 9202	mm	mm	mm	48 KG
IPS Controller 9203	'''''	11///11	111111	52 KG

POWER S	ENCLOSURE DETAILS		
Volts	Frequency	Phase	☐ IP54
□ 240 Vac	50 Hz	single	□ IP55
□ 240 Vac	JU HZ	Sirigic	□ IP65

OPTIONS and ACCESSORIES

- ☐ A serial communications port for communication with a Building Management 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

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