IPC 9511 | TECHNICAL OVERVIEW

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IPC CONTROLLER 9511

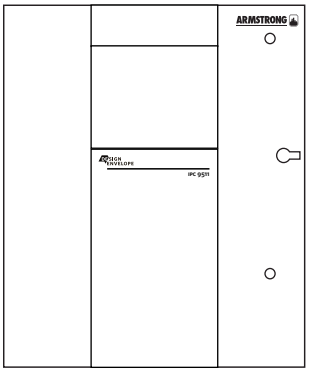
AIR COOLED CHILLER PLANT CONTROLLER

The Armstrong IPC 9511 is a pre-programmed controller, designed for the automation of an air cooled variable primary chiller plant. The IPC 9511 sequences the chillers and optimizes the pump operation for better efficiency of your chiller plant. The controller is fully field configurable through on-board set up screens. This plant automation solution can also be seamlessly integrated with the reporting and remote read-write capabilities of any building management system.

The IPC 9511 is capable of automating a chiller plant with up to five air cooled chillers and five variable speed primary pumps in a number of configurations.

The IPC 9511 offers three options for pump control:

- Parallel sensorless for headered Design Envelope pumps
- or Zone dP sensors (up to 5 zones)
- or Zone temperature sensors (up to 5 zones)



STAND ALONE
(OPTIONAL WITH VFD AND RACK ASSEMBLY)
POWER SUPPLY: 100V-240V AC / 50-60 HZ

IPC 9511 FEATURE MATRIX:

MODEL	SCREEN	ENCLOSURE	OPERATING FOR		AVAILABLE FOR
IPC9511	10" HMI PLC screen and web-based access screens	• NEMA 12 • NEMA 3R • NEMA 4 • IP54 • IP55	Air Cooled Chiller	Quantity	• 1 to 5 (identical sizes)
				Serial interface or hardwired	• Modbus RTU • Bacnet MS/TP • Bacnet IP • Lonworks • Hardwired 0-10V • Hardwired 4-20 mA
			Pumps	Quantity	• 1 to 5 (identical sizes)
				Configuration	• Headered or dedicated
				Type	• Single • DualArm • Twin
				Communication (standard)	• Serial Modbus with the VFDs
			BAS	Serial communication protocol (optional)	• Modbus RTU • Bacnet MS/TP • Bacnet IP • Lonworks

IPC 9511 CAPABILITY:

APPLICATION		CONTROL OPTIONS
Variable primary system	Pump speed control	Or Zone dP sensor with field adjustable set-point reset based on the most open valve position (as per ASHRAE 90.1).
		Or Sensorless
		Or Zone temperature sensor (for systems with 3-way valves)
		Bypass valve control to continue operation at very low load
	Chiller	Supply and return temperature
		Flow
		Chiller kW
	HMI easy display	Plant overview with a multi-color schematic active display of mechanical room hydronic circuit indicating operating status. • Multi-language • Zone set up • Pump configuration • Alarm history and event review • Zones, pumps and event status • Hand-Off-Auto control
Variable secondary system	Pony panel available	• IPS 3000 • IPS 4000 • Parallel Sensorless pump control

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