JSC200L-VAV

VAVController

JSControlsTechnology

Application

- pressure-independence VAV terminal controls, with or without terminal fans

- Controls damper positioning, 3 stage reheating and start-stop fan

Features

- Communication Standard ISO/IEC 14908.1 and 14908.2, ANSI 709.1 and709.3

- Free Topology, TP/FT-10, 78Kbps
-
- RS-485 Communication Port (optional)

- Stand-alone or network operation.

- Onboard detachable differential pressure transducer for easy maintenance

- 5 sensor readings and 1output update per second

- Occupancy modes can be switched over by network variables, occupancy sensor or thermostat

- Offers command module 5Vdc power supply

JSC200L-VAVsupportsLonMark® Functional VAV Controller Profile #8010. The program control logic is developed and tuned by experts with rich HVAC experience. Easy and quick configurationon site.

VAV application modes include auto, heating, cooling, morning warm-up,night-purge and emergency modes.

JSC200L-VAV is integrated DP sensor, able to measure airflow rate. it meets cooling or heating requirements by adjusting damper positioning with PI algorithm andcontrols supplied airflow rate between maximum and minimum volume to maintain zone temperature at its set point.It controls air quality according to CO_2 concentration.

Occupancy modes include occupied, standby, bypass and unoccupied modes. Equipped with infrared occupancy sensor, itcanautomatically switch VAV to standby mode when there is no occupancy in the office at work time(raising temperature set point while ensuring the minimum fresh air requirements in the office). Door and window status can also be connected to JSC200L-VAV. The damper will be closed to save energy when doors and windows are open.

Technical Specification	
Input	4 Universal inputs supporting input types 0-5VDC, 4-20mA, 10K thermistor and dry contact; 12-bit resolution
Output	6 Triac outputs: 1A@24VAC
Input Power	24 VAC, +/- 5%, 50-60HZ;
Power Consumption	4w, 7w (Max);
Communication	TP/FT-10 78Kbps;
Protocol	LonTalk®
LonMark® version	3.2
Neuron Type	FT-5000, 80Mhz
Dimensions/Weight	115mm×125mm×35mm
Operating Environment	0 - 50°C，10-90%RH (Non-condensing)
Cable Type	16-22AWG un-shielded / Belden 8471 un-shielded twisted pair (recommended) for Lon communication run in earthed metal conduit; Multi pair 20AWG shielded for analog inputs, analog outputs, digital inputs; 1.2mm2 - 1.5mm2 PVC cable for power input, Triac output and digital input.
Electromagnetic Compatibility (EMC)	Emission -- EN50081-1 Immunity -- EN50082-1
Interoperability	Conforms to LonMark® interoperability guidelines
Differential pressure transducer	CCD, measuring range:：+/- 5mBar

JSControls Technology is specialist in DDC development in BMS for HVAC control system. Provide low cost and high quality, performance, reliable, and energy efficient control systems.

Specifications subject to change without notice.