



Main

Range	EcoStruxure Building Expert
Product or component type	VAV controller
Device short name	MPM-VA
Device application	Lighting Metering HVAC
Supply	External supply : CSA
Sensor type	Flow sensor
Processor name	ARM9 32-bit ,400 MHz
Battery type	3 V lithium

Complementary

Range compatibility	EcoStruxure Building Expert zone controller
Communication port protocol	BACnet , Ethernet , RJ45 , 10/100 Mbit/s CANbus , 125...500 kbit/s Modbus , EnOcean , at 868 MHz Zigbee Pro , 250 kbps at 2400...2483.5 MHz
Number of devices	16RF channels - ZigBee
Antenna gain	2.5 dBi at 2400...2483.5 MHz 0 dBi at 0...868 MHz
Connector type	RP-SMA
Radio power	8 dBm at - 101 dBm receiver sensitivity - Zigbee 18 dBm at - 105 dBm receiver sensitivity - Zigbee 5 dBm at - 95 dBm receiver sensitivity - EnOcean
Operating distance	<= 100 ft open environment <= 300 ft open environment
[Us] rated supply voltage	24 V AC : 50/60 Hz : +/- 15 % 24 V DC : +/- 10 %
Electrical insulation class	Class II
Number of inputs	6 universal inputs
Analogue input type	Configurable current : 4...20 mA : 14 bits resolution Configurable voltage : 0...10 V : 14 bits resolution Configurable PTC probe : 1...100 kOhm impedance : 14 bits resolution

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Discrete input type	Dry contact
External resistance	249 Ohm for analog input current
Type of measurement	Pressure - 500...500 Pa , +/- 3 % accuracy ,< +/- 0.1 Pa/year offset stability
Number of outputs	4 analog outputs 2 relay outputs
Input/Output type	Analog output ,0...12 V ,<= 50 mA ,12 bits resolution Relay output ,24 V ,1.1 A
Actuator	Damper LM24E 45 lbf.in 0...90 ° 6.35...19.05 mm
Power consumption in VA	3 VA motor
System requirements	Apple Safari Firefox Google Chrome Internet browser
Product compatibility	Smartphone Tablet PC
Power consumption in W	1.6 W
Power consumption in VA	5 VA
Communication gateway	Ethernet/ZigBee
Memory capacity	64 MB flash 4 GB internal
Realtime clock	With battery backed (10000 h)
Connections - terminals	Screw connection
Mounting mode	Clip-on
Mounting support	DIN rail Wall Ceiling
Height	5.2 in
Width	4.96 in
Depth	1.34 in
Enclosure material	ABS
Web server	Embedded web page

Environment

Ambient air temperature for operation	32...140 °F
Ambient air temperature for storage	-4...140 °F
Relative humidity	0...90 % non-condensing
Standards	UL 916 ICES-003 FCC part 15 subpart B CSA C22.2 No 205-M1983
Flame retardance	UL94V0-5VB