

Zoning, Venting & Economizer Controls

CONTROL PANELS

Source 1 Three-Zone Single Stage Control Panels



The S1-MMZ3 Zoning Panel is a 2 and 3 zone, single stage heating and cooling control panel.

Features:

- Economy two and three zone control panel
- LED indicator lights for system operation
- Individual zone indicating lights
- Heating only or cooling only
- Single stage heating and cooling

Panel Specifications:

- Construction: ABS plastic
- Number of Zones: 2 and 3 Zones, Single Stage Heating and Cooling
- Dimensions: 7-5/8" x 7-1/4" x 1-3/8"
- Voltage: 24 VAC, 50/60 Hz
- Temperature Rating: 0°F to 120°F Operating, -20°F to 140°F
- Storage
- Humidity: 5% to 95% Non-Condensing
- Connection: Screwless push-in terminal Blocks

SOURCE 1 PART NO.	DESCRIPTION	ZONES	STAGES	VOLTAGE	MLP \$
S1-MMZ3	ZONING CONTROL PANEL	3	SINGLE	24	273.89
S1-MMZK	ZONING CONTROL PANEL KIT	3	SINGLE	24	357.75

NOTE: S1-MMZK INCLUDES S1-MMZ3 PLUS S1-ZMS LEAVING AIR SENSOR AND 24V TRANSFORMER

Source 1 Two-Zone Add-On Module



A two-zone expansion panel used to add zones onto an S1-MZS4 Zone Control Panel.

Features:

- Two Zone Expansion Panel
- Modular Jacks for Easy Add-On Connection
- Color-Coded Screwless Terminal Blocks
- Individual Zone Indicating Lights
- Indicator LEDs for System Operation
- Expand Systems up to 10 Zones

Panel Specifications

- Construction:** ABS plastic
- Number of Zones:** 2 Expansion
- Dimensions:** 7-5/8" x 7-1/4" x 1-3/8"
- Voltage:** 24 VAC, 50/60 Hz
- Temperature Rating:** 0°F to 120°F Operating, -20°F to 140°F Storage
- Humidity:** 5% to 95% Non-Condensing
- Connection:** Screwless push-in terminal Blocks

SOURCE 1 PART NO.	DESCRIPTION	ZONES	STAGES	VOLTAGE	MLP \$
S1-MZA2	ADD-ON ZONING MODULE	2	-	-	562.32

Source 1 Three-Zone Multi-Stage Control Panels



Features:

- Color-Coded Push-In Wiring Blocks
- Uses Any Four Wire Thermostat
- Three Stage Heating, Two Stage Cooling & Heat Pumps
- Two and Three Zone Panel
- Leaving Air Sensor for Capacity Protection
- Intelligent Changeover Timing
- Indicator Lights for System Operation

Construction:

- ABS plastic
- Number of Zones:** 2 and 3 Zones, Single Stage Heating and Cooling
- Dimensions:** 7-5/8" x 7-1/4" x 1-3/8"
- Voltage:** 24 VAC, 50/60 Hz
- Temperature Rating:** 0°F to 120°F Operating, -20°F to 140°F
- Storage Humidity:** 5% to 95% Non-Condensing
- Connection:** Screw less push-in terminal Block

Panel Specifications:

SOURCE 1 PART NO.	DESCRIPTION	ZONES	STAGES	VOLTAGE	MLP \$
S1-MMH3	ZONING CONTROL PANEL	3	2H/1C	24	311.04
S1-MMHK	ZONING CONTROL PANEL KIT	3	2H/1C	24	397.50

NOTE: S1-MMHK INCLUDES S1-MMH3 PLUS S1-ZMS LEAVING AIR SENSOR AND 24V TRANSFORMER

ZONING ACCESSORIES & DAMPERS

Source 1 Zoning Accessories



Static Pressure Switch Model S1-SPS

The Static Pressure Switch is used to sense the supply air duct's static pressure and control the modulating by-pass damper (Models S1- ZDM or S1-RDM) in order to maintain the duct system air pressure. When used on a zone control system, the supply air static pressure increases as various zone dampers close down. The increase in static pressure can become noisy and reduce the volume of air through the HVAC Unit, if the static overcomes the rating of the blower.

By-Pass Control Operation

- Above 0.3" W.C. - Damper Opens
- Between 0.2"W.C. and 0.3"W.C. - Damper Stops
- Below 0.2" W.C. - Damper Closes

The S1-SPS design incorporates two pressure sensitive diaphragms and two single pole single throw snap action electrical switches.

Electrical Ratings:

SPST Snap Acting Electronic Switches

28VA Pilot Duty @ 24VAC

125VA @ 125VAC

SPST Electrical Load

3 A Resistive @ 120VA

SOURCE 1 PART NO.	DESCRIPTION	MLP \$
S1-SPC	STATIC PRESSURE ZONING CONTROL	424.75
S1-SPS	STATIC PRESSURE ZONING SWITCH	133.71
S1-ZMS	DISCHARGE AIR ZONING SENSOR	63.21

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ZONING ACCESSORIES & DAMPERS

Source 1 Outside Air Sensor



Senses outdoor air temperature when controlling dual fuel/fossil fuel heat pumps.

SOURCE 1 PART NO.	DESCRIPTION	MLP \$
S1-OAS	SENSOR,AIR,OUTDOOR	46.21

Source 1 Modulating Round Zoning Dampers



The S1-RDM can be used for zone control or as the motorized damper for by-pass air when controlled by the Static Pressure Switch, Model S1-SPS. It is designed to also handle high pressure air conditioning systems up to 4"S.P. The motor actuator delivers up to 18 in/lbs of torque that powers the S1-RDM open and closed. This powerful motor allows the damper to handle higher static pressures and can be modulates using the SPS Static Pressure Switch or similar type control.

Features:

- 3-wire, power open and close
- LED damper position indicators
- Neoprene gasket seal
- 24 VAC

Damper Specifications:

Construction: 22 Ga. Galvanized Steel

Linkage: Direct Drive

Motor Voltage: 24 VAC, 50/60 Hz, 6.5 Watts, 7VA

Torque: 35 in-lbs.

Temperature Rating: -4°F to 140°F Operating, -20°F to 150°F Storage

Humidity: 5% to 95% Non-Condensing

Damper Timing: Nominal 30 Sec. Powered

Connection: Screw Terminals

Duct Pressure: Maximum 4.0" W.C.

SOURCE 1 PART NO.	SIZE (IN.)	MLP \$
S1-RDM05	5	244.75
S1-RDM06	6	254.57
S1-RDM07	7	256.29
S1-RDM08	8	259.61
S1-RDM09	9	263.50
S1-RDM10	10	266.43
S1-RDM12	12	271.11
S1-RDM14	14	287.11
S1-RDM16	16	300.46
S1-RDM18	18	317.75
S1-RDM20	20	336.29

NOTE: S1-RDM DAMPERS CAN BE USED AS MODULATING POWERED BYPASS DAMPERS WHEN APPLIED WITH S1-SPS STATIC PRESSURE ZONING SWITCH.

Source 1 Retro-Round Zoning Dampers



A 24 Volt AC, power open, power closed damper. The damper is simply inserted into rigid metal branch ducts. The single blade is powered open and close to control the flow of air to each outlet. The S1-RRM damper blade has a wide wiper seal to seal against the inside of the ducts.

The S1-RDM can be used for zone control or as the motorized damper for by-pass air when controlled by the Static Pressure Switch, Model S1-SPS. It is designed to also handle high pressure air conditioning systems up to 4"S.P. The simple 3 wire motor has a Red motor release button that allows the damper blade to be manually rotated without harm to the motor. It also has LED position indicators that illuminate GREEN when Open and RED when Closed. The motor actuator delivers up to 18 in/lbs of torque that powers the S1-RRM open and closed. This powerful motor allows the damper to handle higher than normal static pressure, up to 3"W.C. Multiple dampers can be wired in parallel. Up to 12 dampers per 40VA transformer. When more than 12 dampers are required use a larger VA transformer. Each motor requires 3VA.

Features:

- Plug-and-play wiring
- Power open and close
- LED damper position indicators
- Rubber gasket seal
- 24 VAC
- Temperature Rating: -4°F to 140°F Operating, -20°F to 150°F Storage

SOURCE 1 PART NO.	SIZE	MLP \$
S1-RRM04	4	232.46
S1-RRM05	5	232.46
S1-RRM06	6	237.50
S1-RRM07	7	237.50
S1-RRM08	8	238.61

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ZONING DAMPERS

Source 1 Rectangular Zoning Dampers

Bottom Mount



SOURCE 1 PART NO.	SIZE (IN.)	MLP \$
S1-ZDMB0810	8 x 10	326.93
S1-ZDMB0812	8 x 12	332.32
S1-ZDMB0814	8 x 14	354.07
S1-ZDMB0816	8 x 16	359.64
S1-ZDMB0818	8 x 18	365.11
S1-ZDMB0820	8 x 20	372.32
S1-ZDMB0822	8 x 22	361.11
S1-ZDMB0824	8 x 24	367.54
S1-ZDMB0826	8 x 26	361.11
S1-ZDMB0828	8 x 28	382.14
S1-ZDMB0830	8 x 30	405.46
S1-ZDMB0832	8 x 32	393.21
S1-ZDMB0834	8 x 34	398.68
S1-ZDMB0836	8 x 36	404.11
S1-ZDMB1012	10 x 12	356.29
S1-ZDMB1014	10 x 14	378.46
S1-ZDMB1016	10 x 16	385.75
S1-ZDMB1018	10 x 18	392.00
S1-ZDMB1020	10 x 20	398.54
S1-ZDMB1022	10 x 22	403.68
S1-ZDMB1024	10 x 24	394.54
S1-ZDMB1026	10 x 26	387.39
S1-ZDMB1028	10 x 28	432.14
S1-ZDMB1030	10 x 30	433.82
S1-ZDMB1032	10 x 32	432.36
S1-ZDMB1034	10 x 34	446.64
S1-ZDMB1036	10 x 36	467.29
S1-ZDMB1214	12 x 14	395.21
S1-ZDMB1216	12 x 16	402.68
S1-ZDMB1218	12 x 18	383.00
S1-ZDMB1220	12 x 20	419.61
S1-ZDMB1222	12 x 22	426.36
S1-ZDMB1224	12 x 24	401.00
S1-ZDMB1226	12 x 26	408.36
S1-ZDMB1228	12 x 28	409.75
S1-ZDMB1230	12 x 30	413.29
S1-ZDMB1232	12 x 32	451.82
S1-ZDMB1234	12 x 34	461.89
S1-ZDMB1236	12 x 36	482.57
S1-ZDMB1416	14 x 16	409.82
S1-ZDMB1418	14 x 18	417.29
S1-ZDMB1420	14 x 20	427.11
S1-ZDMB1422	14 x 22	403.89
S1-ZDMB1424	14 x 24	412.93
S1-ZDMB1426	14 x 26	420.79
S1-ZDMB1428	14 x 28	428.50
S1-ZDMB1430	14 x 30	435.79
S1-ZDMB1432	14 x 32	438.36
S1-ZDMB1434	14 x 34	445.68
S1-ZDMB1436	14 x 36	457.68
S1-ZDMB1618	16 x 18	403.82
S1-ZDMB1620	16 x 20	447.32

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Source 1 Rectangular Zoning Dampers

Bottom Mount (cont.)

SOURCE 1 PART NO.	SIZE (IN.)	MLP \$
S1-ZDMB1622	16 x 22	430.29
S1-ZDMB1624	16 x 24	451.39
S1-ZDMB1626	16 x 26	504.71
S1-ZDMB1628	16 x 28	493.71
S1-ZDMB1630	16 x 30	506.93
S1-ZDMB1632	16 x 32	517.46
S1-ZDMB1634	16 x 34	528.04
S1-ZDMB1636	16 x 36	541.32
S1-ZDMB1820	18 x 20	430.29
S1-ZDMB1822	18 x 22	456.68
S1-ZDMB1824	18 x 24	467.29
S1-ZDMB1826	18 x 26	493.71
S1-ZDMB1828	18 x 28	506.00
S1-ZDMB1830	18 x 30	541.32
S1-ZDMB1832	18 x 32	551.86
S1-ZDMB1834	18 x 34	567.71
S1-ZDMB1836	18 x 36	580.89
S1-ZDMB2022	20 x 22	480.46
S1-ZDMB2024	20 x 24	493.71
S1-ZDMB2026	20 x 26	520.14
S1-ZDMB2028	20 x 28	525.43
S1-ZDMB2030	20 x 30	554.54
S1-ZDMB2032	20 x 32	567.71
S1-ZDMB2034	20 x 34	583.54
S1-ZDMB2036	20 x 36	599.43
S1-ZDMB2224	22 x 24	522.79
S1-ZDMB2226	22 x 26	543.93
S1-ZDMB2228	22 x 28	549.21
S1-ZDMB2230	22 x 30	578.29
S1-ZDMB2232	22 x 32	599.43
S1-ZDMB2234	22 x 34	612.68
S1-ZDMB2236	22 x 36	631.18
S1-ZDMB2426	24 x 26	567.71
S1-ZDMB2428	24 x 28	573.04
S1-ZDMB2430	24 x 30	607.39
S1-ZDMB2432	24 x 32	623.25
S1-ZDMB2434	24 x 34	639.07
S1-ZDMB2436	24 x 36	657.04

Note: S1-ZDMB dampers can be used as modulating powered bypass dampers when applied with S1-SPS static pressure zoning switch.

Source 1 Rectangular Zoning Dampers

Side Mount



SOURCE 1 PART NO.	SIZE (IN.)	MLP \$
S1-ZDMS0808	8 x 8	337.21
S1-ZDMS1008	10 x 8	342.54
S1-ZDMS1010	10 x 10	363.82
S1-ZDMS1208	12 x 8	347.96
S1-ZDMS1210	12 x 10	371.93
S1-ZDMS1212	12 x 12	371.86
S1-ZDMS1408	14 x 8	354.07
S1-ZDMS1410	14 x 10	378.46
S1-ZDMS1412	14 x 12	395.18
S1-ZDMS1414	14 x 14	402.18

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ZONING DAMPERS

Source 1 Rectangular Zoning Dampers

Side Mount (cont.)

SOURCE 1 PART NO.	SIZE (IN.)	MLP \$
S1-ZDMS1608	16 x 8	359.64
S1-ZDMS1610	16 x 10	385.71
S1-ZDMS1612	16 x 12	402.71
S1-ZDMS1614	16 x 14	409.82
S1-ZDMS1616	16 x 16	430.86
S1-ZDMS1808	18 x 8	365.11
S1-ZDMS1810	18 x 10	392.00
S1-ZDMS1812	18 x 12	412.04
S1-ZDMS1814	18 x 14	417.32
S1-ZDMS1816	18 x 16	433.64
S1-ZDMS1818	18 x 18	439.07
S1-ZDMS2008	20 x 8	372.32
S1-ZDMS2010	20 x 10	398.54
S1-ZDMS2012	20 x 12	419.61
S1-ZDMS2014	20 x 14	427.11
S1-ZDMS2016	20 x 16	447.29
S1-ZDMS2018	20 x 18	445.43
S1-ZDMS2020	20 x 20	477.36
S1-ZDMS2208	22 x 8	376.79
S1-ZDMS2210	22 x 10	403.68
S1-ZDMS2212	22 x 12	426.36
S1-ZDMS2214	22 x 14	418.96
S1-ZDMS2216	22 x 16	445.43
S1-ZDMS2218	22 x 18	471.79
S1-ZDMS2220	22 x 20	495.61
S1-ZDMS2222	22 x 22	529.93
S1-ZDMS2408	24 x 8	383.18
S1-ZDMS2410	24 x 10	410.14
S1-ZDMS2412	24 x 12	416.07
S1-ZDMS2414	24 x 14	443.00
S1-ZDMS2416	24 x 16	466.54
S1-ZDMS2418	24 x 18	482.39
S1-ZDMS2420	24 x 20	526.64
S1-ZDMS2422	24 x 22	537.86
S1-ZDMS2424	24 x 24	569.64
S1-ZDMS2608	26 x 8	364.00
S1-ZDMS2610	26 x 10	402.54
S1-ZDMS2612	26 x 12	423.50
S1-ZDMS2614	26 x 14	435.89
S1-ZDMS2616	26 x 16	504.75
S1-ZDMS2618	26 x 18	526.64
S1-ZDMS2620	26 x 20	535.25
S1-ZDMS2622	26 x 22	559.04
S1-ZDMS2624	26 x 24	582.86
S1-ZDMS2808	28 x 8	382.11
S1-ZDMS2810	28 x 10	432.14
S1-ZDMS2812	28 x 12	439.75
S1-ZDMS2814	28 x 14	459.18
S1-ZDMS2816	28 x 16	508.86
S1-ZDMS2818	28 x 18	539.39
S1-ZDMS2820	28 x 20	540.50
S1-ZDMS2822	28 x 22	564.36
S1-ZDMS2824	28 x 24	588.14
S1-ZDMS3008	30 x 8	391.71
S1-ZDMS3010	30 x 10	433.79
S1-ZDMS3012	30 x 12	428.39
S1-ZDMS3014	30 x 14	466.71
S1-ZDMS3016	30 x 16	522.07
S1-ZDMS3018	30 x 18	556.39
S1-ZDMS3020	30 x 20	569.64
S1-ZDMS3022	30 x 22	593.36
S1-ZDMS3024	30 x 24	622.50
S1-ZDMS3208	32 x 8	379.93
S1-ZDMS3210	32 x 10	447.46
S1-ZDMS3212	32 x 12	466.96
S1-ZDMS3214	32 x 14	453.50
S1-ZDMS3216	32 x 16	532.61
S1-ZDMS3218	32 x 18	567.00
S1-ZDMS3220	32 x 20	582.86
S1-ZDMS3222	32 x 22	614.54
S1-ZDMS3224	32 x 24	638.36
S1-ZDMS3408	34 x 8	385.18
S1-ZDMS3410	34 x 10	461.75
S1-ZDMS3412	34 x 12	477.07
S1-ZDMS3414	34 x 14	476.93
S1-ZDMS3416	34 x 16	543.18
S1-ZDMS3418	34 x 18	603.29
S1-ZDMS3420	34 x 20	598.71
S1-ZDMS3422	34 x 22	627.75
S1-ZDMS3424	34 x 24	654.25
S1-ZDMS3608	36 x 8	390.43
S1-ZDMS3610	36 x 10	482.39

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ZONING DAMPERS

Source 1 Rectangular Zoning Dampers

Side Mount

SOURCE 1 PART NO.	SIZE (IN.)	MLP \$
S1-ZDMS3612	36 x 12	497.71
S1-ZDMS3614	36 x 14	472.75
S1-ZDMS3616	36 x 16	556.39
S1-ZDMS3618	36 x 18	616.86
S1-ZDMS3620	36 x 20	614.54
S1-ZDMS3622	36 x 22	646.29
S1-ZDMS3624	36 x 24	672.14

NOTE: S1-ZDMS DAMPERS CAN BE USED AS MODULATING POWERED BYPASS DAMPERS WHEN APPLIED WITH S1-SPS STATIC PRESSURE ZONING SWITCH.

BY-PASS DAMPERS

Source 1 Barometric By-Pass Dampers

Source 1 Round Barometric Bypass Dampers

SOURCE 1 PART NO.	SIZE (IN.)	MLP \$
S1-SPRD08	8	83.86
S1-SPRD09	9	89.36
S1-SPRD10	10	93.14
S1-SPRD12	12	107.43
S1-SPRD14	14	118.36
S1-SPRD16	16	130.86
S1-SPRD18	18	149.61
S1-SPRD20	20	191.68

Source 1 Barometric By-Pass Dampers

Source 1 Rectangular Barometric Bypass Dampers

SOURCE 1 PART NO.	SIZE (IN.)	MLP \$
S1-SPRD1208	12 x 8	104.79
S1-SPRD1210	12 x 10	112.79
S1-SPRD1212	12 x 12	114.75
S1-SPRD2008	20 x 8	109.96
S1-SPRD2010	20 x 10	118.46
S1-SPRD2012	20 x 12	119.68