

SmartZonePLUS-E1/E4

Commercial & Residential HVAC Expandable Zoning System up to 33 Zones

ECOJAY SmartZone Controllers feature the latest and most advanced zone controls available in their class and are designed to deliver reliable operation for years. The **ECOJAY SmartZonePLUS** family features simple expandability up to 33 zones by adding any mix of SmartZonePLUS-E1/E4 one and four zone expander boards to a single Main Controller (MC). The MC (Main Controller) operates the equipment and one zone (ZONE1).

SmartZonePLUS integrates residential and commercial grade controls into the SmartZonePLUS-MC for maximum flexibility and optimum control when needed. Convenient timesaving screwless wiring terminals, push button/dipswitch panels and full function color system display simplify installation and troubleshooting.

Ecojoy's **SmartZonePLUS Economy** feature enables users to conveniently switch individual zones or the entire System into ECONOMY MODE.

PLUS Features

- UP to 33 Zones
- Configurable Balance points for Heat Pump Aux Heat and Compressor (outdoor temp sensor required)
- Humidity Control from Zone 1 Thermostat
- Adaptive Opposing Call Changeover
- Adjustable Time/Temperature FRESH AIR Damper Control (with optional Outdoor Air Sensor)
- Intelligent 2 cool, 3 heat, time/temp staging or ZONE 1 thermostat
- Monitors # of calls for cool and heat, total zones, minutes before changeover, outdoor air temp, supply air temp, limit settings, purge, fresh air & equipment mode from the SmartZonePLUS-MC
- Smart Limit Control™ (SLC) protects compressor from short cycling and low temp, and heat exchanger hi temp

Easy Installation & Configuration

- Heat Pump, Dual Fuel and Gas/Electric Systems
- 3-Stage Heating and 2-Stage Cooling Equipment
- Quick-Connect Screwless Terminals
- Simple pushbutton and dipswitch configuration
- Monitor entire system from SmartZone Panel, including Supply Air Temp, Cut-Out, Purge, Delay and Economy
- Color Coded Diagnostic LED Indicators for each Thermostat Input
- Color LED Indicators show damper position (RED=Close, GREEN=Open)

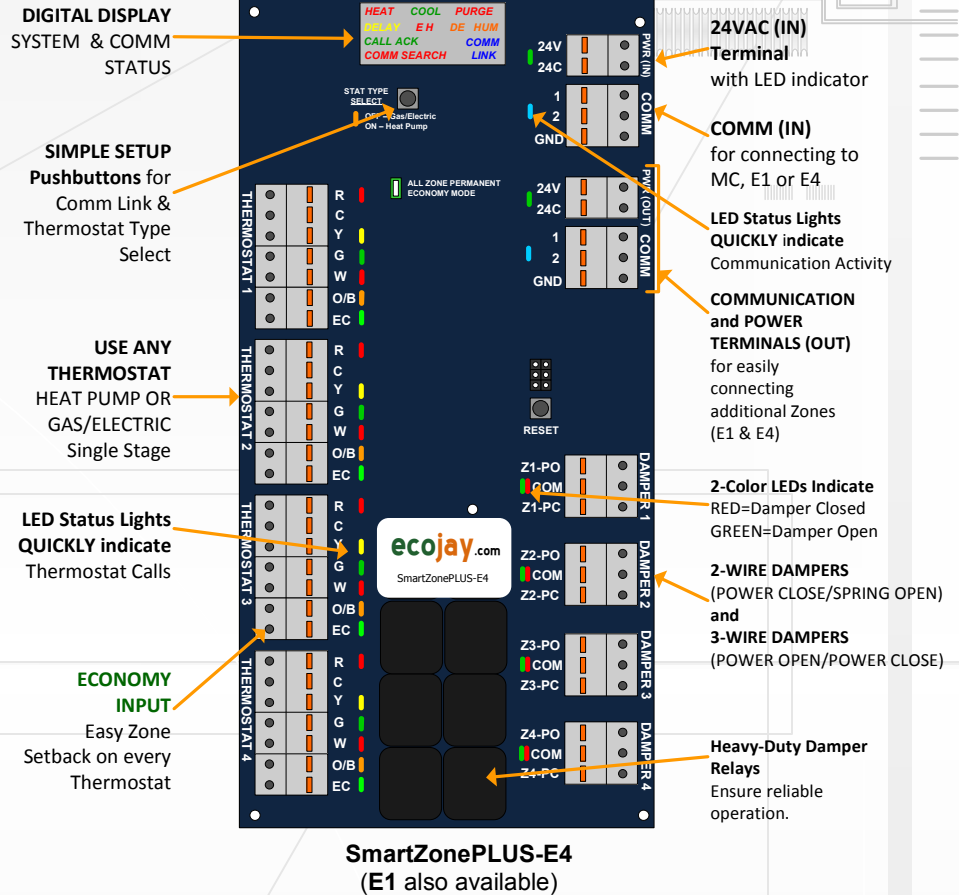
Economy Features

- ECONOMY Mode built-in to EVERY ZONE
- User can switch between zone control and conventional 'single-thermostat' control
- Smart-Staging (including built-in Dual Fuel)

Convenient Customer Features

- Automatic Changeover for Maximum Comfort
- Customer never needs access to the SmartZone Panel
- Enable Emergency Heat from Heat Pump Thermostat
- Energize Fan from any Thermostat
- Superior 5-Year Limited Factory Warranty

SmartZonePLUS (Expander Zones – 1 or 4)



ADD 4 Zones at a time with the E4 or ADD one zone at a time with the E1. UP TO 33 Zones

**ecojoy SmartZone,
the SMART choice.**

Included with SmartZonePLUS-E1/E4

- Plastic Enclosure with wire knockouts and multiple mounting options
- Superior 5-Year Limited Factory Warranty

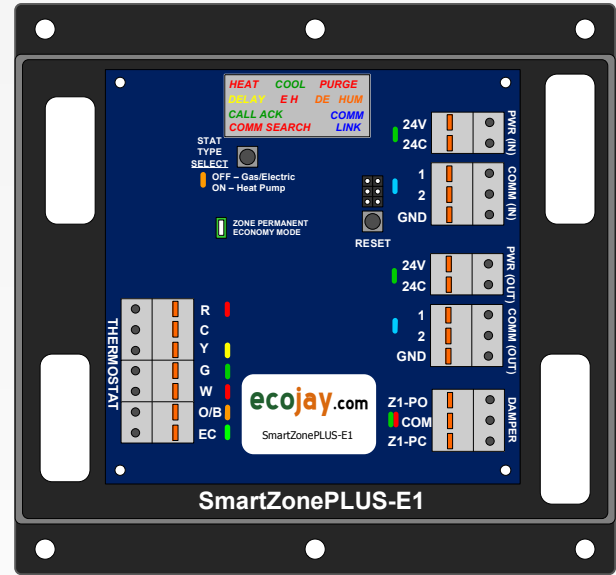
MORE INFORMATION
AVAILABLE ONLINE
ecojoy.com

SPECIFICATIONS

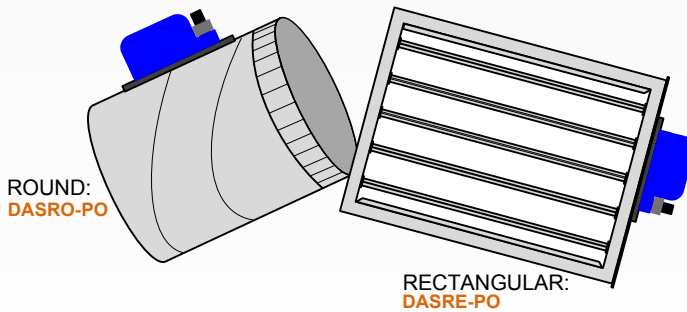
POWER	ZPE1	10VA MAX (275 mA @ 24VAC)
	ZPE4	14VA MAX (350 mA @ 24VAC)
	SYSTEM	E1/E4 (10 or 14 VA) + Thermostat (3VA) + Damper (3 to 10 VA) = Total Transformer Size
	PROTECTION	Integrated Electronic Auto-Reset Fused links (Field supplied transformer should also be fused)
OUTPUTS	COMMUNICATION	COMM OUT – 3 wire reliable communications to MC or E (BLUE) [Use Cat5 Cable ONLY]
	DAMPERS	10 AMP @ 24VAC Contact Rating (40VA) Power-Close / Spring-Open Dampers (10VA) Power-Open / Spring-Close Dampers (10VA) Power-Open / Power-Close Dampers (3VA)
INPUTS	THERMOSTAT	<u>LABEL – DESCRIPTION (LED COLOR)</u> R – 24VAC HOT (RED) C – Common (NONE) Y – Compressor (YELLOW) G – Fan (GREEN) W – Heating OR Emergency Heat (RED) OB – Reversing Valve (ORANGE)
	ECONOMY	EC – Single Zone Economy Mode (GREEN)
	COMMUNICATION	COMM IN – 3 wire reliable communications to MC or E (BLUE) [Use Cat5 Cable ONLY]
CONFIG	PUSHBUTTONS / JUMPER	
	Push ONCE to Initialize COMM with MC Set Thermostat Type Reset Jumper to set Permanent Economy Zone(s)	DISPLAY MENU HEAT COOL PURGE DELAY Emergency Heat Humidify / Dehumidify COMM SEARCH COMM LINK

OTHER REFERENCES

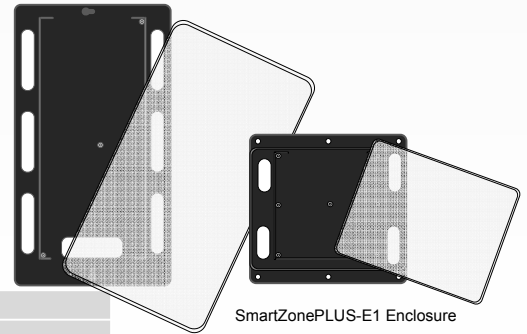
- ECOJAY SmartZonePLUS-MC Spec Sheet
- ECOJAY SmartZonePLUS Install Guide for quick step by step process for installation
- ECOJAY SmartZone System Manual for a full guide to ECOJAY Zoning products
- ECOJAY SmartZone Troubleshooting Guide for additional support
- References available at ecojay.com or by calling 1-888-523-ECOJ



DAMPERS AVAILABLE IN OVER 60 DIFFERENT SIZES AND STYLES



SmartZonePLUS-E4 Enclosure



SmartZonePLUS-E1 Enclosure

ECOJAY PART NUMBERS

ZONE CONTROLS	Up to 8 ZONES	ZS2X	SmartZone-2X	2-Zone Controller w/ Supply Sensor
		ZS4X	SmartZone-4X	4-Zone Controller w/ Supply Sensor
		ZS8X	SmartZone-8X	8-Zone System (Using 4X4 LINK) w/ Supply Sensor
		ZSKIT#	SmartZone-KIT	Order by # of zones, up to 8 Zones
ZONE CONTROLS	Up to 33 ZONES	ZPMC	SmartZonePLUS-MC	Main Controller (Controls Equipment & Zone 1) w/ Supply Sensor
		ZPE1	SmartZonePLUS-E1	1-Zone Expander Module (for use with SZP-MC)
		ZPE4	SmartZonePLUS-E4	4-Zone Expander Module (for use with SZP-MC)
		ZPKIT#	SmartZonePLUS-KIT	Order by # of zones, up to 33 Zones
DAMPERS	SUPPLY	DSUS	Supply ROUNd – Spring Open	Spring Open (Fail Open)/ Power Close Round Supply Damper
		DSUP	Supply ROUNd – Power Open	Power Open/ Power Close Round Supply Damper
		DSEP	Supply REctangular – Power Open	Power Open/ Power Close Rectangular Supply Damper
	BYPASS	DBUM	Bypass ROUNd – SPC	Static Pressure Controlled Round Bypass Damper
		DBEM	Bypass REctangular – SPC	Static Pressure Controlled Rectangular Bypass Damper
		DBUB	Bypass ROUNd – Barometric	Barometric (Weight-Arm) Controlled Round Bypass Damper

ecojay.com
MORE INFORMATION ABOUT THESE PRODUCTS AVAILABLE ONLINE

