

Model ZCDWL

2-Zone Wireless Automatic Comfort Control

For Aftermarket

eControls

Contractor Sell Sheet



The award-winning ZCDWL 2-Zone Wireless Comfort Control works with the existing thermostat to solve the comfort problem found in two-story homes.

While the thermostat controls the activation of heating and cooling calls, the ZCDWL automatically controls the distribution of heating and cooling based on the zone temperatures to provide a uniformly comfortable home and save energy in every season.

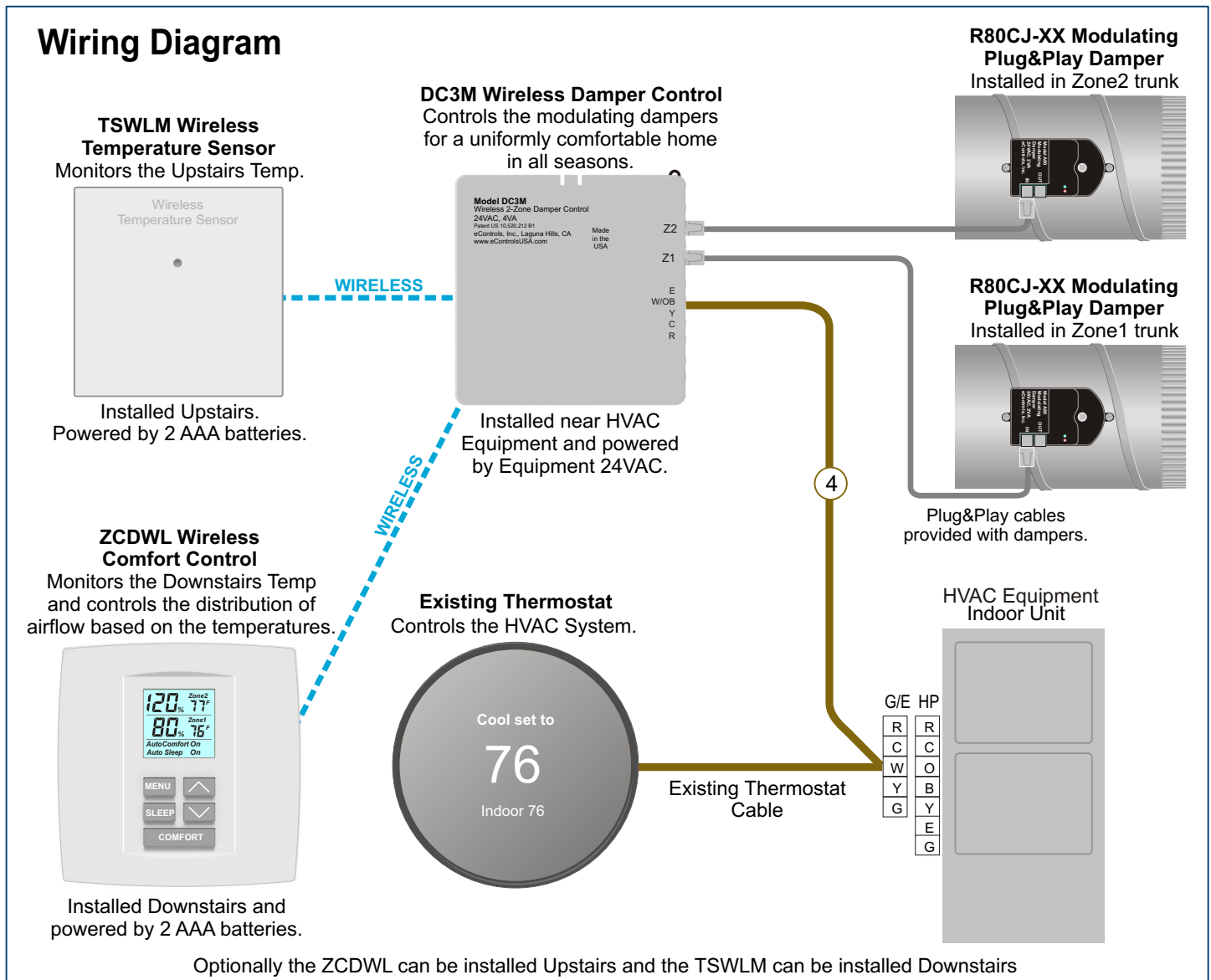
- ▶ Eliminates new wiring in the living space.
- ▶ Eliminates Bypass
- ▶ Eliminates DAT sensor and separate 24VAC Transformer.
- ▶ About half the material cost of zoning
- ▶ About half the installation time of zoning.
- ▶ Works with Smart Thermostats, OEM Thermostats and simple 24VAC Thermostats.



Proudly designed, engineered
and assembled in the USA



Wiring Diagram



Installation

Typical installation includes two round R80CJ or rectangular RT80CJ Modulating Plug&Play Dampers installed in the trunks feeding the upstairs and downstairs zones.

The DC3M Wireless Damper Control is installed near the equipment and wires to gas/electric equipment terminals C, R, Y and W or heat pump equipment terminals C, R, Y, O or B and E for 24VAC power and to monitor the equipment for heating and cooling calls. The dampers connect to the DC3M using the included plug&play cables.

The TSWLM wireless temperature sensor is installed in the upstairs zone, is battery powered and requires no wiring.

The ZCDWL Wireless 2-Zone Control is installed in the downstairs zone, is battery powered and requires no wiring. The ZCDWL is compatible with simple, Smart and OEM thermostats. Alternately, the ZCDWL can be installed in the upstairs zone and the sensor installed in the downstairs zone.

How It Works

The ZCDWL monitors the equipment for heating and cooling calls and monitors the downstairs temperature at its location and the upstairs temperature at the sensor.

If the upstairs and downstairs temperatures differ by 2 degrees or more, the ZCDWL automatically distributes 2% more heating or cooling to the zone that needs it every 2 minutes.

To distribute more heating or cooling upstairs, the upstairs damper fully opens and the downstairs damper partially closes, forcing more heating or cooling to the upstairs zone. To distribute more heating or cooling downstairs, the downstairs damper fully opens and the upstairs damper partially closes, forcing more heating or cooling to the downstairs zone.

The ZCDWL system dynamically adjusts the dampers to find the right distribution of heating and cooling to provide a uniformly comfortable home and save energy in every season.

Comparison to Zoning

	ZCDWL Control	Traditional Zoning
Install Bypass Duct and Damper	Not Required. Modulating dampers never close.	May be required or in-zone bypass damper may be used.
Bypass Calibration and Test	Not Required.	Requires testing and setting of bypass.
Install Damper Control or Zoning Panel	Install Damper Control. Connect 4 wires and 2 plug&play cables.	Install Zoning Panel. Connect 23-25 wires.
Line Voltage Wiring	Not Required. Uses equipment 24VAC.	Required for 24VAC transformer.
Install 24VAC Transformer and Box	Not Required. Uses equipment 24VAC.	Required.
Install and wire DAT sensor in plenum	Not Required. Discharge air temperature is not affected by modulating zoning.	Required.
Wire Dampers	Not Required. Plug&Play	Required.
Compatible with Existing Thermostat	Yes. Requires only one thermostat.	Yes. Requires two thermostats.
Install 2-Zone Wall Control Downstairs	Required. Battery Powered - No Wiring.	Not Required.
Install Thermostat Upstairs	Install wireless sensor - No wiring.	Required.
Install New Wiring in the Living Space	Battery powered. ZCDWL requires no wiring.	Required for upstairs thermostat. Or use expensive wireless hub and wireless thermostat.

Easiest to Install 2-Zone System Available

- No Bypass to Install
- No Bypass to Calibrate and Test
- Only 4 Wires to Connect vs. 23-25 Wires
- No DAT Sensor to Install
- No 24VAC Transformer to Install
- Eliminates installing second thermostat.
- Works with Existing 24VAC Thermostat
- No New Wiring in Living Space.

Homeowner Features

Save 30% in Energy at Night

Improves comfort and saves 30% in energy at night by automatically distributing more heating or cooling to the upstairs zone and 30% less to the unoccupied downstairs zone.

Automatic or Manual Comfort Control

Automatically controls the distribution of heating or cooling to keep the upstairs and downstairs uniformly comfortable. Or, the homeowner can manually direct more heating or cooling to the upstairs or downstairs zone as desired to improve comfort and save energy.

Ordering Information

Typical Installation - (1) ZCDWLK and (2) Dampers.

ZCDWLK 2-Zone Wireless Automatic Comfort Control Kit

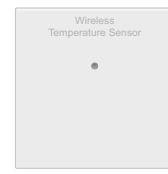
Kit Includes a ZCDWL 2-Zone Wireless Comfort Control, a DC3M Wireless Damper Control and a TSWLM Wireless Temperature Sensor. The ZCDWL, DC3M and TSWLM are prelinked with a unique ID address.



ZCDWL



DC3M



TSWLM

R80CJ-XX

Round, Modulating, Plug&Play Damper. Includes 25' plug&play cable. Available in 6-20 inch diameters.



RT80CJ-HHxDD

Rectangular, Modulating, Plug&Play Damper. Includes 25' plug&play cable. Available in 8 x 8 thru 16 x 20 in 2 inch increments. Actuator on HH, first dimension side.



Other Zoning Products



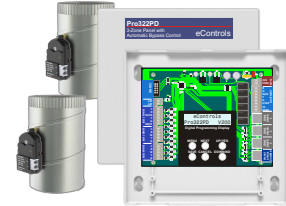
ZCMWL

Low Cost Wireless 2-Zone Manual Comfort Control. Eliminates bypass, DAT sensor and separate 24VAC transformer.



Pro332PD

Low cost 3-Zone panel with automatic bypass control and on-panel display. For gas/electric or heat pump equipment w/ 2H/2C.



Pro442PD

4-Zone panel with automatic bypass control and on-panel display. Ability to add 4-8 additional zones. For gas/electric, heat pump and dual fuel heat pump equipment w/ 4H/2C.

Where to Purchase

Available through distribution.

Contact Information:

949-916-0945

Sales@eControlsUSA.com

Visit eControlsUSA.com to see other 2-Zone Comfort Controls and Zone Panel solutions.

Limited 5-Year Warranty

The 5-year warranty is limited to the repair or replacement of defective product due to parts failure or defective workmanship.

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