



Young Regulator Co.

7100 Krick Rd • Walton Hills, OH 44146

P: 440-232-9700 • F: 440-232-8266

www.youngregulator.com

Submit DCD5050 – 1-10

Model DCD5050

*Electronic Balancing Damper
In Takeoff - No Position Indication - 12V DC*

Application and Design

The Young Regulator DCD5050 is an Electronic Balancing Damper in a high efficiency take off. Dampers above a hard ceiling or in any inaccessible location can be controlled with the EBDP – Electronic Balancing Damper Positioner, which opens and closes the damper.

The Positioner can be used to control any number of dampers at a worksite through a variety of receptacles that are offered. The Positioner is self contained and small enough to be carried in a pocket. A high capacity battery is featured for long life and is easily replaced in the field when necessary.

The EBD5050 is ideal in a number of applications:

- Labs, where more precise balancing or control may be required
- Schools, prisons, and mental health facilities, where access to controls is restricted
- Atriums, where dampers are inaccessible and long cable runs are required
- Any situation where seasonal changes require re-balancing of the HVAC system

An EBD5050, Electronic Balancing Damper that includes the 12V DC motor, an EBDC Cable up to 1,000' in length, and a termination are required for a complete assembly. Field connection between 12V DC motor and termination is fast and simple with snap on connectors installed by the factory. One EBDP Positioner is required per job.



STANDARD CONSTRUCTION		
Fitting	24 ga. Galvanized Steel	
Blade	20 ga. Galvanized "V" Blade	
Bushings	Nylon	
Shaft	1/2" Diameter Steel	
Flange	1" Wide with Corner Clips	
Gasket	Double Sided Adhesive	
SIZE INFORMATION		
Order Size	Rectangular Opening	Height
6"	6" x 9 3/4"	14"
8"	8" x 11"	14"
10"	6 3/4" x 14"	12 1/2"
12"	7 1/8" x 17"	12 1/2"
ACTUATOR		
Volts	12V DC	

Watts	< 0.5
Amp	< 20 mA.
Timing	12 sec. 90° Rotation
Torque	16 lbs.-in. (max)

ACCESSORIES	
REQUIRED	TERMINATION OPTIONS
DCDP - Positioner One per Order	EBD 301 Concealed Ceiling Termination
DCDC - Plenum Rated Cable One Per Assembly	EBD 302 Concealed Wall Termination
	EBD-Wall (1, 2, 4, 6, 12 Ports)

OTHER	
Low Leak Seals	Spare Batteries

OPTIONS	
Optional Model is available without position indication	



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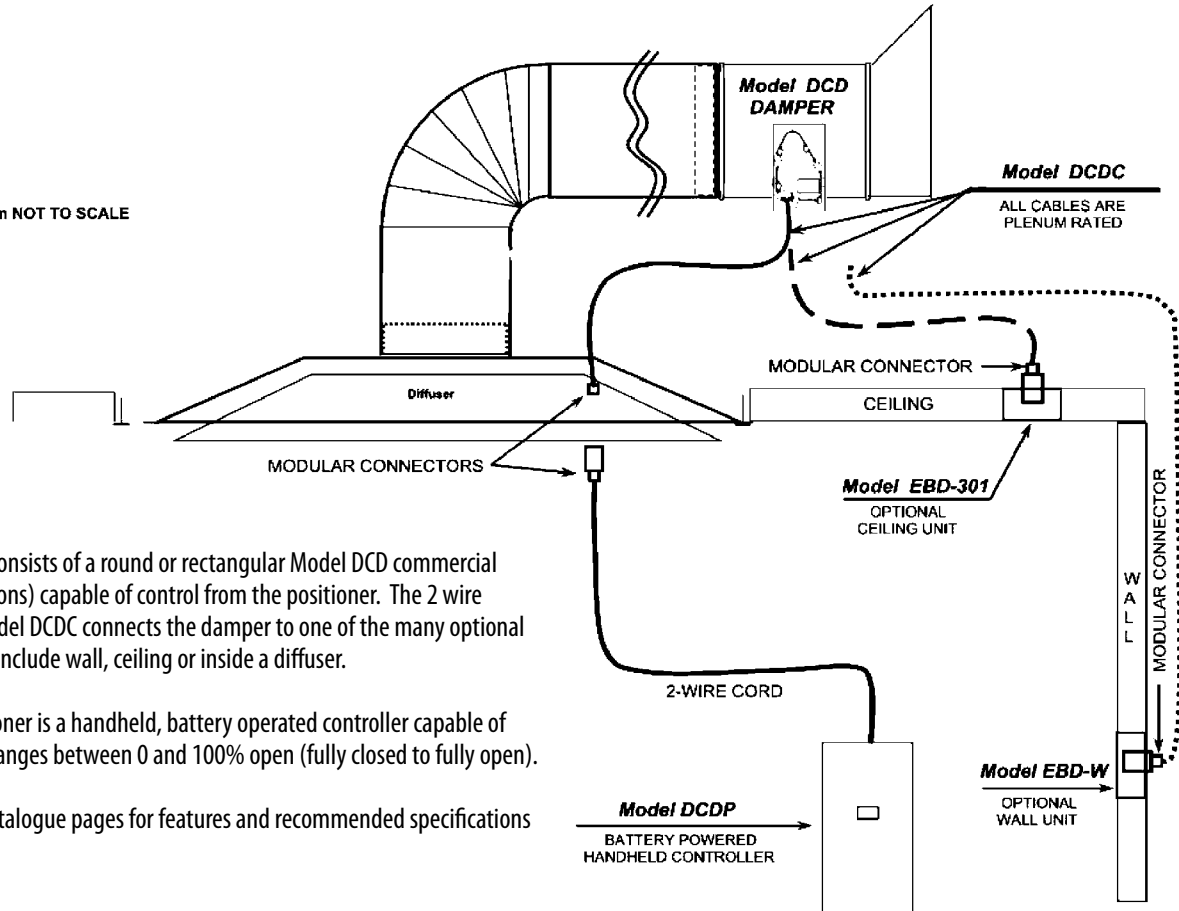
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NOTE: Illustration NOT TO SCALE



The balancing system consists of a round or rectangular Model DCD commercial damper (see specifications) capable of control from the positioner. The 2 wire plenum rated cable Model DCDC connects the damper to one of the many optional termination ports that include wall, ceiling or inside a diffuser.

The Model DCDP positioner is a handheld, battery operated controller capable of operating dampers at ranges between 0 and 100% open (fully closed to fully open).

NOTE: See individual catalogue pages for features and recommended specifications

Operation:

The Positioner provides DC power to the DCD5050 damper. A non-rechargeable 9v battery powers the Positioner.

Once the unit is connected to a receptacle, it is capable of operating the damper over a range of 0 – 100%.

The position of the damper blade is controlled by the use of a front mounted rocker switch, opening the damper by depressing the right side of the switch and closing the damper by depressing the left side of the switch. The switch will return to the neutral center position when released.

When finished adjusting dampers at the worksite, the positioner should be returned to the owner.

Replacement batteries are available from Young Regulator Co and many retail outlets. Dispose of used batteries in accordance with local regulatory and environmental codes.

QUANTITY	DIAMETER	NOTES

PROJECT	LOCATION
CONTRACTOR	DESIGN SPECIFIER