



## Young Regulator Co.

7100 Krick Rd • Walton Hills, OH 44146

P: 440-232-9700 • F: 440-232-8266

[www.youngregulator.com](http://www.youngregulator.com)

Submit DCD – 1-10

## Model DCD

*Round Electronic Balancing Damper  
No Position Indication - 12V DC*

## Application and Design

The Young Regulator DCD is a electronic balancing damper actuated by a 12V DC motor. Dampers above a hard ceiling or in any inaccessible location can be controlled with the DCDP Damper Positioner, which opens and closes the damper.

The DCDP Positioner is used to control any number of dampers that are 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 DCD is ideal in a number of applications:

- 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

The DCD Electronic Balancing Damper includes the 12V DC motor. For a complete assembly, a DCDC Cable up to 1,000' in length, and possibly a termination, are required. Field connection between 12V DC motor and termination is fast and simple with snap on connectors installed by the factory. Also, one DCDP Positioner is required per job.



STANDARD CONSTRUCTION	
Shell	4" - 9" 24 ga. Galvanized Steel 10" - 16" 20 ga. Galvanized Steel
Blade	20 ga. Galvanized Steel
Shaft	½" Plated Steel
Bushing	Oil Impregnated Bronze
SIZE INFORMATION	
One end straight, one end crimped. Rolled stiffening beads	
Diameter	4" – 16"
Shell Length	8"
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	TP 301 Concealed Ceiling Termination
DCDP - Plenum Rated Cable One Per Assembly	EBD-Wall (1, 2, 4, 6, 12 Ports)
OTHER	
High Efficiency Takeoff Version	Rectangular Dampers
Low Leak Seals	Spare Batteries
OPTIONS - 1" flange with stick tight gasket	
Optional Model is available with position indication (YR Model EBD) □ □	



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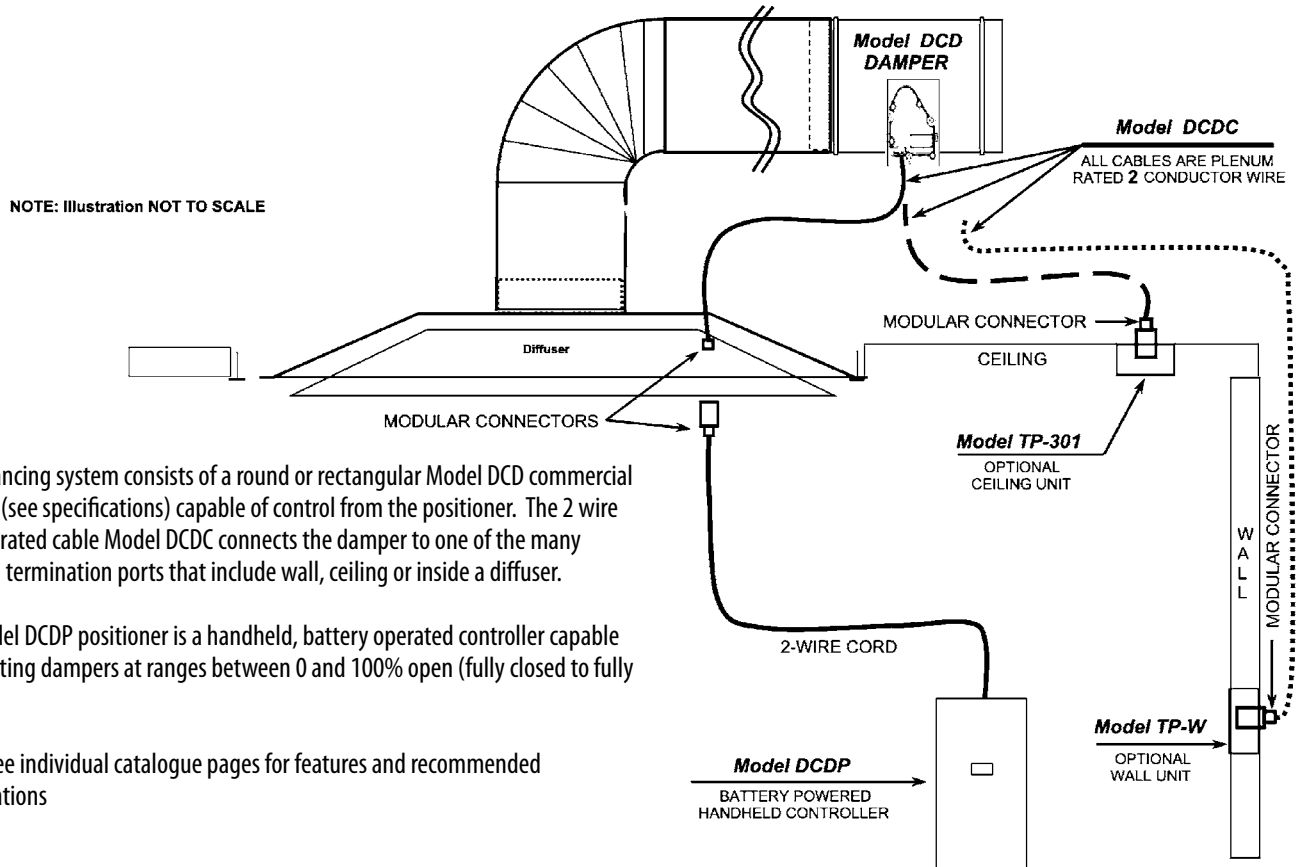
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The balancing system consists of a round or rectangular Model DCD commercial damper (see specifications) capable of control from the positioner. The 2 wire plenum rated cable Model DCDC connects the damper to one of the many optional termination ports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