



Young Regulator Co.

7100 Krick Rd • Walton Hills, OH 44146

P: 440-232-9700 • F: 440-232-8266

www.youngregulator.com

Submit EBD – 1-10

Model EBD

*Round Electronic Balancing Damper
With Position Indication - 12V DC*

Application and Design

The Young Regulator EBD is an Electronic Balancing Damper actuated by a 12V DC motor. 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 **and provides a visual indication of the damper position with an LCD meter.**

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 EBD 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 EBD, 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 12VDC motor and termination is fast and simple with snap on connectors installed by the factory. One EBDP Positioner is required per job.



STANDARD CONSTRUCTION	
Shell	4" – 9" – 24 ga. 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
EBDP - Positioner One per Order Minimum	EBD 301 Concealed Ceiling Termination
EBDC - Plenum Rated Cable One Per Damper	EBD 302 Concealed Wall Termination
	EBD-Wall (1, 2, 4, 6, 12 Ports)
OTHER	
Spare Batteries	Rectangular Dampers, Model EBDR
Low Leak Seals	Take Off EBD-5050
OPTIONS	
Available without position indication (DCD)	



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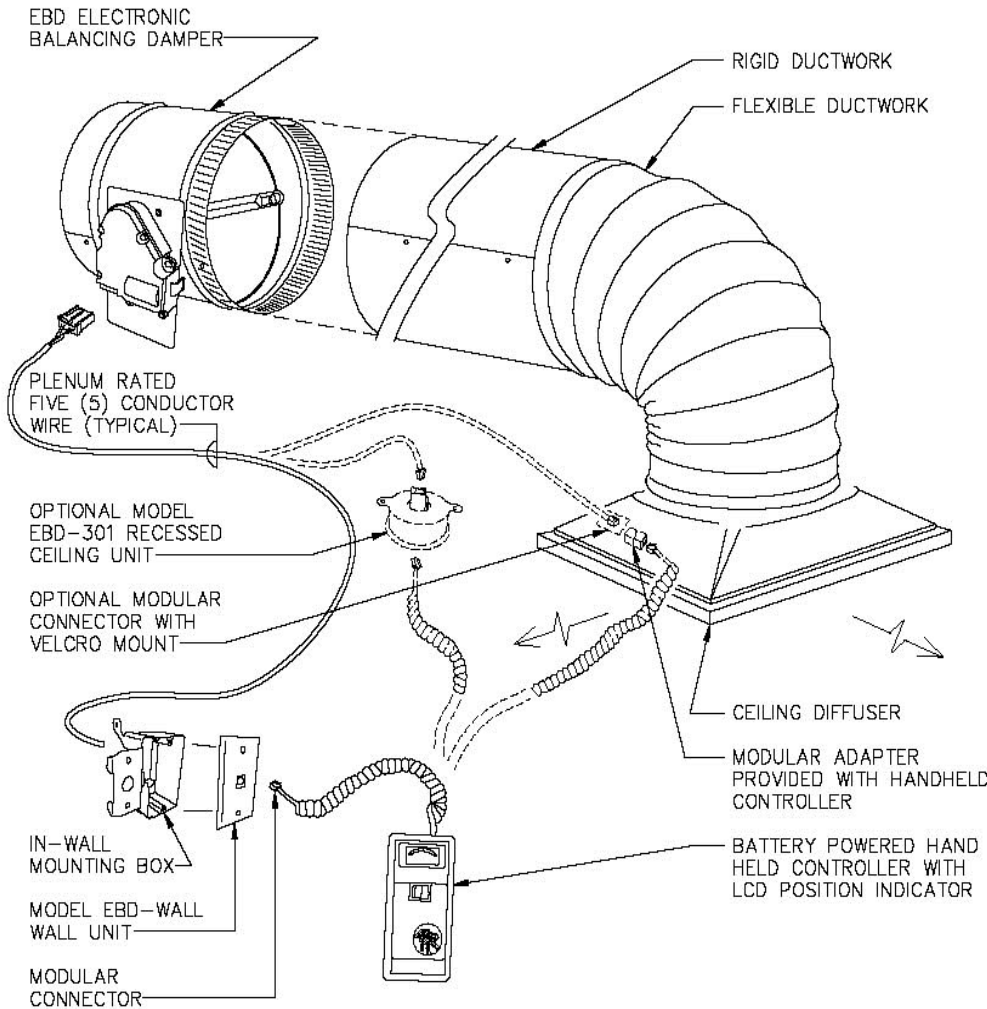
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NOTES:

- 1.) Coordinate exact location of EBD – Wall unit with architect prior to installation.
- 2.) The handheld position controller shall be turned on via a side-mounted switch that enables the meter to indicate damper position. Once the handheld position controller is connected to the wall unit, the integral LCD meter indicates blade position operating over a range of 0 – 100% open via a voltage signal that is proportional to the blade angle.
- 3.) The position of the damper blade shall be 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 integral LCD meter shall indicate the exact position of the damper blade. The rocker switch shall return to the neutral center position when released.
- 4.) When finished adjusting dampers at the worksite, be sure to turn the handheld position controller off with the slide switch to extend battery life.
- 5.) A 9V lithium battery shall power the positioner. Replace the battery in the handheld position controller with the same type of battery to maintain the calibration of the handheld position controller. Replacement batteries are available from Young Regulator Co. and many retail outlets. Dispose of used batteries in accordance with local regulatory and environmental codes.
- 6.) The EBD is ideal in a number of application:
 - Labs, where more precise balancing of 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
- 7.) EBDC cables shall not be longer than 1,000 ft. in length. Field installed terminations may be required for a complete assembly. Field connection between 12V DC motor and termination shall be made with snap on connectors installed by the factory.
- 8.) One EBDP handheld position controller shall be required per job.

YOUNG REGULATOR ELECTRONIC
BALANCING DAMPER (EBD) WITH POSITIVE
FEEDBACK CONTROL SYSTEM

NO SCALE

QUANTITY	DIAMETER	NOTES
PROJECT	LOCATION	
CONTRACTOR	DESIGN SPECIFIER	