



**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 EBDR – 1-10

**Model EBDR**

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

**Application and Design**

The Young Regulator EBDR is an opposed blade rectangular Electronic Balancing Damper. 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 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 EBDR 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 EBDR, 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	
Frame	.050 Aluminum Extrusion with Reinforcing Channels
Blade	.050 Aluminum Extrusion with Reinforcing Channels
Mounting Plate	5" Wide x Damper Height
Slide	Individual Synthetic
SIZE INFORMATION	
Undersized = 3/16" high x wide	
Frame Width	2-1/8" Wide
Blade Width	1.438" - Contained within Frame
Max Size	24" x 24"
Min Size	4" x 3"

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	EBD 301 Concealed Ceiling Termination
EBDC - Plenum Rated Cable One Per Assembly	EBD 302 Concealed Wall Termination
	EBD-Wall (1, 2, 4, 6, 12Ports)



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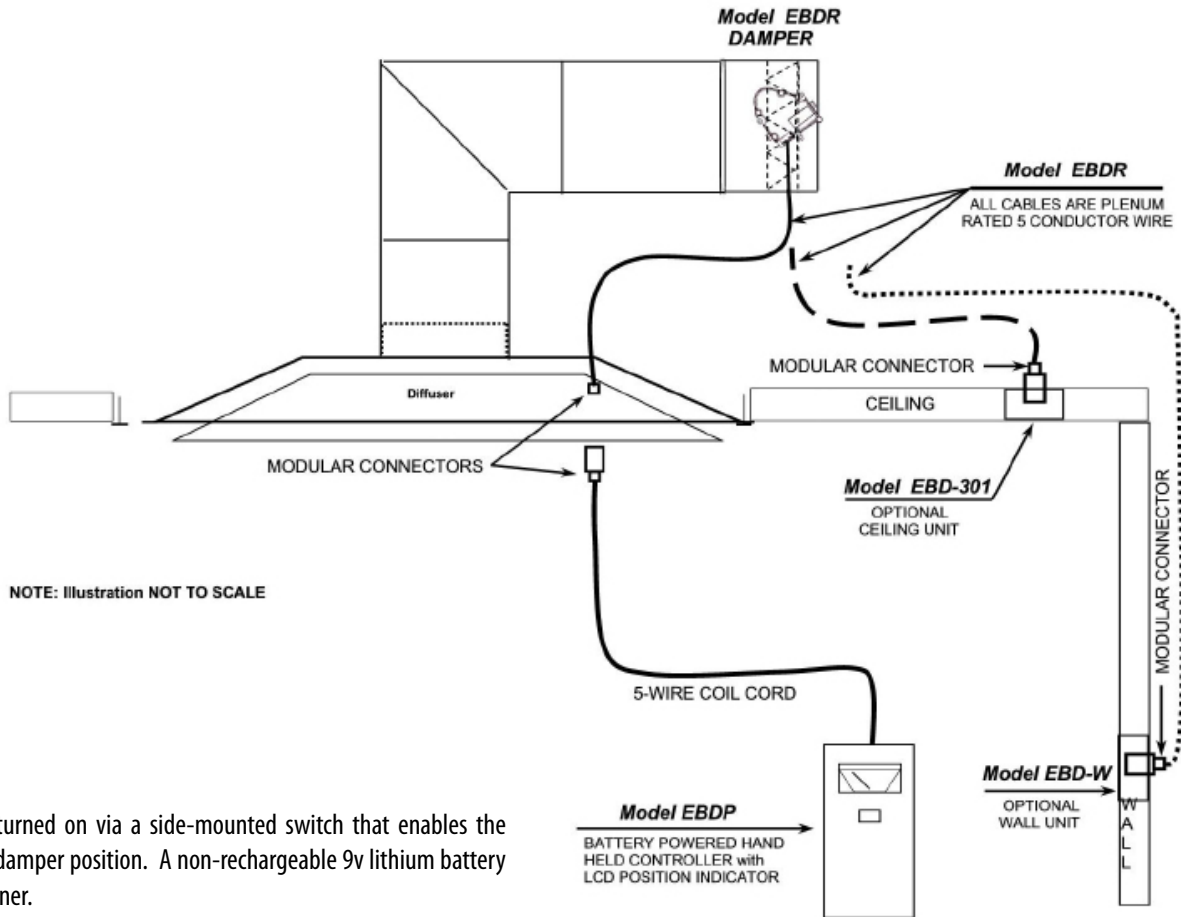
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**Operation:**

The Positioner is turned on via a side-mounted switch that enables the meter to indicate damper position. A non-rechargeable 9v lithium battery powers the Positioner.

Once the unit is connected to a receptacle, the meter indicates blade position modulating over a range of 0 – 100% open via a voltage signal that is proportional to the blade angle.

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 meter indicates the exact position of the damper blade. The switch will return to the neutral center position when released.

When finished adjusting dampers at the worksite, be sure to turn the Positioner off with the slide switch to extend battery life. Positioner should be returned to the owner.

Replace the battery in the positioner with the same type of battery to maintain the calibration of the position meter. 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	WIDE	HIGH	NOTES

<b>PROJECT</b>	<b>LOCATION</b>
<b>CONTRACTOR</b>	<b>DESIGN SPECIFIER</b>