

# PULSE 100 & 200



**UL** UL Listed  
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## PULSE 200

Featuring LED control panel to easily customize settings.



## PULSE 100

Pre-wired for easy installation.  
3-button control panel included.

## PULSE GARAGE DOOR OPENERS

Powerful. Reliable. Quiet.

The PULSE 100 and 200 Series have an impressive range of features and benefits that makes them the perfect opener for high-end garage doors. With whisper-quiet operation, an industry-leading battery backup system, and array of customizable features to extend the life of your door and enhance safety, Pulse operators are an excellent choice for your garage door. Both operators are available in 3/8 and 1/2 horsepower options.

### FEATURING

- Whisper-quiet operation thanks to a modern direct-drive DC motor.
- Works during blackouts with built-in battery backup.
- Enhanced safety with intelligent force monitoring.
- Extend the life of your door with soft start/soft stop functionality and a door balance check feature.
- Increased energy efficiency with advanced speed control options.
- Photo-eye monitoring system comes standard.
- Compatible with a variety of wireless remote options.
- Includes a 2-year factory warranty.
- The Pulse 200 works with third-party locking systems.

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# The **Pulse 100 & 200 Series Operators from iControls** are Perfect for use on a Home's Garage Door.



Key features include:

## Battery backup

Should power fail, the included batteries provide power for multiple door cycles (press and hold operation for safe emergency use). Built on a separate circuit, the Pulse battery backup will work even if the control and/or drive board has been damaged (due to a lightning strike, impact, etc) This sets it apart from all other door entry systems that rely on full functionality of the printed circuit board. A built-in trickle charger ensures that the batteries are always charged and ready. If the batteries are fully drained or go missing, a crankshaft socket is provided as a mechanical backup.

## Soft Start/Soft Stop

This feature offers smooth, controlled acceleration and deceleration of the door, and helps prolong the life of its mechanical parts. It also aids in the prevention of cable throw. The distance of both the acceleration and deceleration distance can be programmed to match the door requirements as needed.

## Advanced Speed Control

Set the speed that best suits the installation. Achieve opening speeds up to 24"/s and closing speeds of up to 16"/s (varies according to gearbox, drum size/type and door style).

## Intelligent Force Monitoring

Should the door hit an obstruction or become jammed during the closing cycle, the system will sense the change in force and reverse the door to avoid further damage. On opening, a sensed obstruction or jam will cause the door to stop. This all but eliminates the need for an additional safety edge. Note that the sensitivity of this feature is adjustable, and can be tailored to the installation.

## Door Balance Check

Once selected from the menu, the door automatically moves through one complete cycle and reports (on the LCD) the difference in force required to open the door versus closing it. Use this feedback to verify proper door balance without having to remove the operator. A properly balanced door will extend the life of the door springs and maximize battery backup performance.

## Door Lock Activation (for Pulse 200 only)

Third party door locks can be connected with ease. Once installed and selected, the operator activates the unlock function prior to opening and the lock function at full close. Settings for this feature include an adjustable door motion delay from 100 to 500ms to ensure optimal functionality and performance. Compatible with most 12V automatic locking systems.

## Ordering for Pulse 100

Includes at 3/8 or 1/2 HP-rated 90Vdc motor door operator with a gearbox for 1" keyed solid shaft, two 12V, 0.82Ah battery backup system and a reflective photo eye.

Part Number	Horse Power	Gearbox			Door	
		Shaft	Size	Ratio	Size	Max. Weight**
PDCR-138-100	3/8	1"	50	30:1	Up to 150 sq. ft.	Up to 588 lbs.
PDCR-150-100	1/2	1"	50	30:1	Up to 200 sq. ft.	Up to 750 lbs.

## Ordering for Pulse 200

3/8 or 1/2 HP-rated 90Vdc motor door operator with a gearbox for 1" keyed solid shaft. Includes 24V, 2.3Ah battery backup system, reflective photo eye. For balanced doors to 200 sq. ft. / 750 lbs. 40:1 Gearbox ratio is recommended for most balanced commercial applications. Use 30:1 For higher speed balanced requirements. Use 50:1 when using pusher/bumper springs. (Contact iControls for recommendations)

Part Number	Horse Power	Gearbox			Door		Cable Length 'YY'
		Shaft	Size	Ratio - 'XX'	Size	Max. Weight**	
PDCR-238-1-XX/50-YY	3/8	1"	50	30, 40, 50 or 60	up to 150 sq. ft.	up to 588 lbs.	10, 15, 20 or 25
PDCR-250-1-XX/50-YY	1/2	1"	50	30, 40, 50 or 60	up to 200 sq. ft.	up to 750 lbs.	10, 15, 20 or 25

Part number creation: Substitute the desired gearbox ratio value for 'XX' to suit your application. 40:1 Gearbox ratio is recommended for most balanced commercial applications. Use 30:1 for higher speed balanced requirements. Use 50 or 60:1 when using pusher/bumper springs, or in light springless applications (Contact iControls for recommendations). Substitute the desired length of motor cable for 'YY' in ft. - Choose from 10, 15, 20 or 25. If no added cable length is desired, do not use suffix 'yy' - product will be supplied with 2 ft. of cable for connection in junction box. I.E. PDC-238-1-40/63-10 is the part number for Series 200 3/8 HP motor operator with 1" hollow shaft, size 63, 40:1 ratio gearbox and 10 ft of motor cable.

\*Opening door speeds are dependant on installation variables such as drum size, gearbox ratio, door balance, door size, etc. Speeds indicated represent figures based on optimal installations and conditions. \*\*Max. Weight is for counter-balanced doors with a max imbalance of up to 75 lbs. And is dependent on external factors including shaft and drum size, and gearbox ratio.