

# PDC-SERIES

Duplex Controller

# Liberty Pumps®

A Family and Employee Owned Company

## Duplex Control system monitors the operation of two pumps up to 1 hp, 12A

Available in 115V and 230V

### Features

- Automatically alternates pump operation, equalizing wear and extending pump life
- Plug-in ready wiring for easy and quick installation (indoor models only)
- 10' and 25' float switch lengths available
- Factory wired float switches with Quick-connect at box (indoor models only)
- Green power indicator
- Green pump run indicators
- Audible and visual alarm
- Auxiliary contacts
- 9-volt alarm backup
- Receptacles are angled to accept standard or right-angled plugs
- Programmed automatic 6 hour run limiter protects against run-dry or runaway pump conditions



### Models

PDC-115 Indoor NEMA 1, 115V

PDCW-115 Outdoor NEMA 4X, 115V

PDC-230 Indoor NEMA 1, 230V

PDCW-230 Outdoor NEMA 4X, 230V



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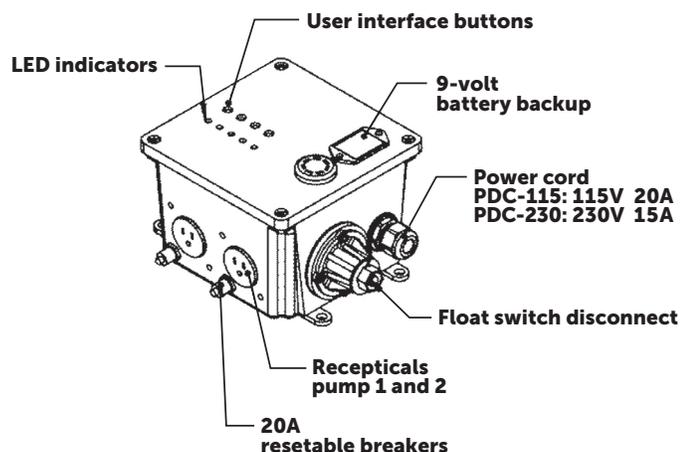
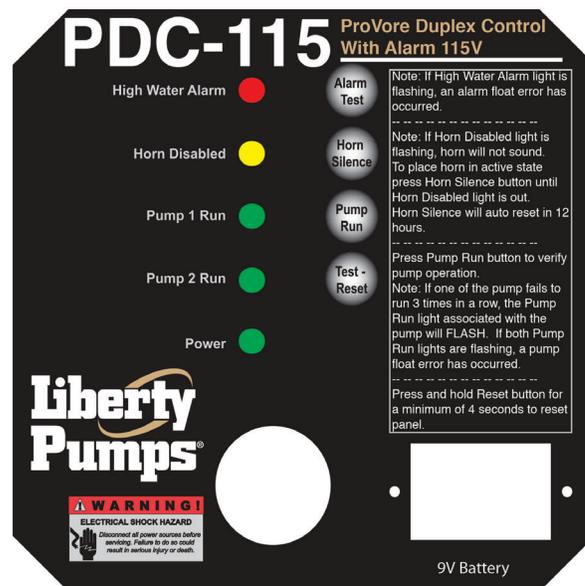
# PDC-Series

## Technical Specifications

PDC panels control the operation of two pumps. The system includes a primary pump control float switch and an alarm float switch. LED indicators show power ON, pump run status, alarm status, and horn enable/disable status. Operator pushbutton controls are available to manually run the pumps, to manually test the alarm, to disable or enable the alarm horn, as well as reset the system. Both pumps are individually protected with a manual reset fuse to isolate a failed pump.

When incoming fluid activates the primary pump float switch, the controller will energize one of the pumps. When water level in sump recedes, the pump will turn off when the primary pump float switch drops to the off position. Upon the next pumping cycle, the controller will activate the next pump in sequence providing a pumping redundancy for the system. The controller will continue to alternate pumps on each cycle.

If a pump fails to operate, the alarm will activate and the second pump will be called on to operate.



**PDC-Series controllers feature a programmed 6 hour run limiter for pump protection. If the alarm float switch remains closed (up position) for 6 hours but the primary float switch is open (down position), the alarm light will flash and the pump is turned off. This feature prevents the pump from running indefinitely and protects against run-dry situations.**

| MODEL      | VOLTS | PH | Hz | FLOAT SWITCH LENGTH | ENCLOSURE       | WEIGHT   | DEPTH | WIDTH | HEIGHT |
|------------|-------|----|----|---------------------|-----------------|----------|-------|-------|--------|
| PDC-115    | 115   | 1  | 60 | 10'                 | Indoor NEMA 1   | 7 lbs    | 4.5"  | 6"    | 6"     |
| PDC-115-2  | 115   | 1  | 60 | 25'                 | Indoor NEMA 1   | 8 lbs    | 4.5"  | 6"    | 6"     |
| PDCW-115   | 115   | 1  | 60 | 10'                 | Outdoor NEMA 4X | 9.5 lbs  | 4"    | 8"    | 8"     |
| PDCW-115-2 | 115   | 1  | 60 | 25'                 | Outdoor NEMA 4X | 10 lbs   | 4"    | 8"    | 8"     |
| PDC-230    | 230   | 1  | 60 | 10'                 | Indoor NEMA 1   | 7 lbs    | 4.5"  | 6"    | 6"     |
| PDC-230-2  | 230   | 1  | 60 | 25'                 | Indoor NEMA 1   | 8 lbs    | 4.5"  | 6"    | 6"     |
| PDCW-230   | 230   | 1  | 60 | 10'                 | Outdoor NEMA 4X | 11.5 lbs | 4"    | 8"    | 10"    |
| PDCW-230-2 | 230   | 1  | 60 | 25'                 | Outdoor NEMA 4X | 12 lbs   | 4"    | 8"    | 10"    |

\* All PDC duplex controllers have 20A breakers with reset