

# iDock Sensor Retrofit Kit

## Installation Overview

### Fluid Sensor Retrofit Kits



Always read and understand the Owner's/User's Manual and become thoroughly familiar with the equipment and its controls before installing or operating equipment. **Failure to read and understand owner's/user's manual may result in voiding of warranty, damage to equipment, death or serious injury!**

A major benefit of the iDock Control System is the ability to check equipment status and diagnose faults from the controller itself. With the optional iDock Fluid Sensor, the iDock controller can notify the equipment operator when the dock leveler or vehicle restraint is running low on hydraulic fluid.

iDock controllers with a 7141-0360 Expansion Board installed can retrofit sensors with the following kit(s):

Fluid Sensor Kit Options	
Part Number	Description
7155-0001	Kit, Fluid Sensor, Plastic Reservoir
7155-0002*	Kit, Fluid Sensor, Cookpot Reservoir*

**Note:** Kits require the installer to provide field wiring (3-wire, 18-gauge minimum) between the fluid sensor and iDock controller to complete installation. Follow all local and applicable national electrical codes.

**\*Kit 7155-0002 additionally requires the installer to provide thread sealant tape and hydraulic fluid meeting or exceeding specification MIL-H-5606 to complete installation.**

### Installation Overview

1. Read and understand the appropriate sections of the PRECAUTIONS section of the equipment Owner's/ User's Manual, and ensure the proper Lock Out/Tag Out procedures are performed during service.
2. Refer to included 11x17 installation print to gain an understanding of the retrofit process.
3. Locate the hydraulic fluid reservoir of the motor/pump assembly where the sensor will be installed.
4. Install fluid level sensor to reservoir.
  - Units with plastic reservoirs have an externally mounted sensor that requires no disassembly to install. Refer to print 7155-0001.
  - Units with cookpot reservoirs require disassembly to install the provided pre-drilled reservoir and sensor. Refer to print 7155-0002. Use thread sealant tape where sensor enters reservoir. When assembly is complete, refill reservoir with appropriate amount of hydraulic fluid.
5. Connect fluid sensor wiring to electrical junction box in dock leveler pit or on wall near CentraPower unit.
6. Connect field wires to appropriate terminals in iDock control box. Refer to job-specific iDock wiring diagram for information as specific wiring may vary.
7. Restore power to equipment.

If additional assistance is required, contact Systems, LLC Technical Services.  
**Technical Service at 800-643-5424 or [techservices@loadingdocksystems.com](mailto:techservices@loadingdocksystems.com)**

# iDock Sensor Retrofit Kit

## Installation Overview

### Forklift Sensor & Vehicle Detection Retrofit Kits



Always read and understand the Owner's/User's Manual and become thoroughly familiar with the equipment and its controls before installing or operating equipment. **Failure to read and understand owner's/user's manual may result in voiding of warranty, damage to equipment, death or serious injury!**

The ability to track facility traffic automatically is a significant component of the iDock Control System. With the optional Forklift Sensor, the iDock controller can track each time a forklift enters or exits a transport vehicle. The optional Vehicle Detection Sensor logs each time a transport vehicle is present at a dock position.

iDock controllers with a 7141-0360 Expansion Board installed can retrofit sensors with the following kit(s):

Forklift Sensor & Vehicle Detection Kit Options	
Part Number	Description
7155-0003*	Kit, Forklift Sensor, Bracket Mount*
7155-0004	Kit, Forklift Sensor, Track Guard Mount
7155-0005*	Kit, Forklift Sensor, Bracket Mount, Washdown Applications*
7155-0006	Kit, Forklift Sensor, Track Guard Mount, Washdown Applications
7155-0007*	Kit, Vehicle Detection Assembly*

**Note:** Forklift Sensor Kits are available in "Bracket Mount," which includes angle brackets for wall mounting, and "Track Guard Mount," which mount directly to pre-drilled holes on the Allied Solutions Track Guard LS.

**\*Bracket Mount and Vehicle Detection Assembly kits require the installer to provide mounting hardware.**

### Installation Overview

1. Read and understand the appropriate sections of the PRECAUTIONS section of the equipment Owner's/ User's Manual, and ensure the proper Lock Out/Tag Out procedures are performed during service.
2. Refer to included 11x17 installation print to gain an understanding of the retrofit process.
3. Install sensors at desired location(s). Avoid mounting sensor eyes in direct sunlight for proper performance; some installations may require additional shielding (provided by others).
  - Bracket Mount and Vehicle Detection Assembly kits require the installer to drill and install mounting hardware provided by others. Refer to included 11x17 installation print.
  - Track Guard Mount kits can be installed directly to pre-drilled holes in Track Guard LS. Refer to included 11x17 installation print.
4. Connect sensor wires to appropriate terminals in iDock control box. Refer to job-specific iDock wiring diagram for information as specific wiring may vary.
5. Restore power to equipment.

If additional assistance is required, contact Systems, LLC Technical Services.  
**Technical Service at 800-643-5424 or [techservices@loadingdocksystems.com](mailto:techservices@loadingdocksystems.com)**