

# Remote Fill System

The Remote Fill System provides reliable tank level control and leak detection in one panel, thus saving the need for a separate leak detection system. For jurisdictions that require 24 hour monitoring, form C dry contacts are provided for monitoring by BMS or Fire Alarm.



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The remote fill system consists of a NEMA 4 locking remote fill enclosure and a matching NEMA 4 remote fill control panel. The remote fill enclosure may be flush or surface mounted or free standing with an optional rack. The unit is furnished complete with integral alarm light, horn, silence and fill enable switches.

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# Remote Fill System

## Specifications

<b>DIMENSIONS</b>	24 X 24 X 24 Flush mount unit has 2 inch flange on all sides.
<b>WEIGHT</b>	85 lbs.
<b>CONSTRUCTION</b>	Welded steel construction of enclosure. The unit includes a kamvalock fitting and dust cover. The unit does not include any piping. Piping may enter on the top, bottom, back or sides.
<b>CONTROLS</b>	Ships with matching remote fill control panel.
<b>UL LISTING</b>	UL 508
<b>CAPACITY</b>	Secondary containment is 5.3 gallons.
<b>POWER REQUIRED</b>	120 volts, dedicated circuit at control panel. Remote fill enclosure light and horn are powered from matching control panel.

## Ordering Information

**PART #:** RFS

### REMOTE FILL SYSTEM INCLUDES:

- Dry disconnect and dust cover.
- Remote fill panel with silence switch, fill enable switch, light and horn.
- Remote fill control panel, single tank, shipped loose.
- Level probe for tank, shipped loose.
- Two leak detectors, shipped loose.
- One inch Normally Open solenoid valve, shipped loose

### OPTIONAL PART #: RFSTAND

Welded stand for free standing application.

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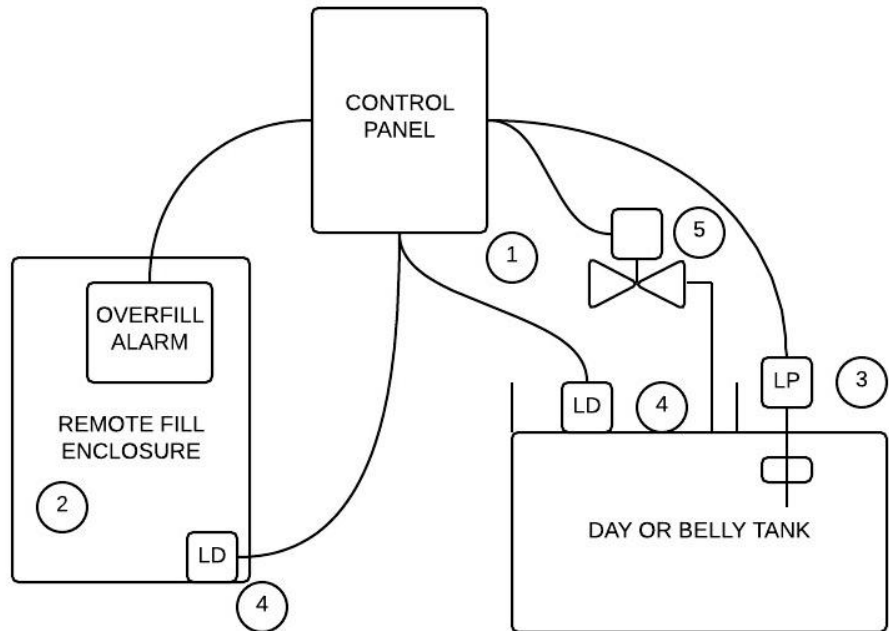
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# Remote Fill System

## Schematic Diagram and Sequence of Operation

ITEM	QUANTITY	DESCRIPTION
1	1	Remote fill control panel
2	1	Remote Fill Enclosure with integral light and horn, silence and fill enable switches
3	1	High level float switch
4	2	Leak detectors
5	1	Normally open solenoid valve



### REMOTE FILL SYSTEM

The system operator must place the fill enable switch into the "on" position for a fill operation. The control panel monitors the high level in the day or belly tank. When the fuel level reaches the high level, the solenoid valve will close and the alarm horn and light in the remote fill and at the control panel are energized. A system operator may silence the alarm local to the remote fill or from the control panel, but the alarm light will remain lit and energized until the fill enable switch is placed into the "off" position.

The control panel monitors leak detectors in the remote fill assembly and the top of the day or belly tank. A spare leak detector input is provided on the control panel for a piping transition tray or piping sump.

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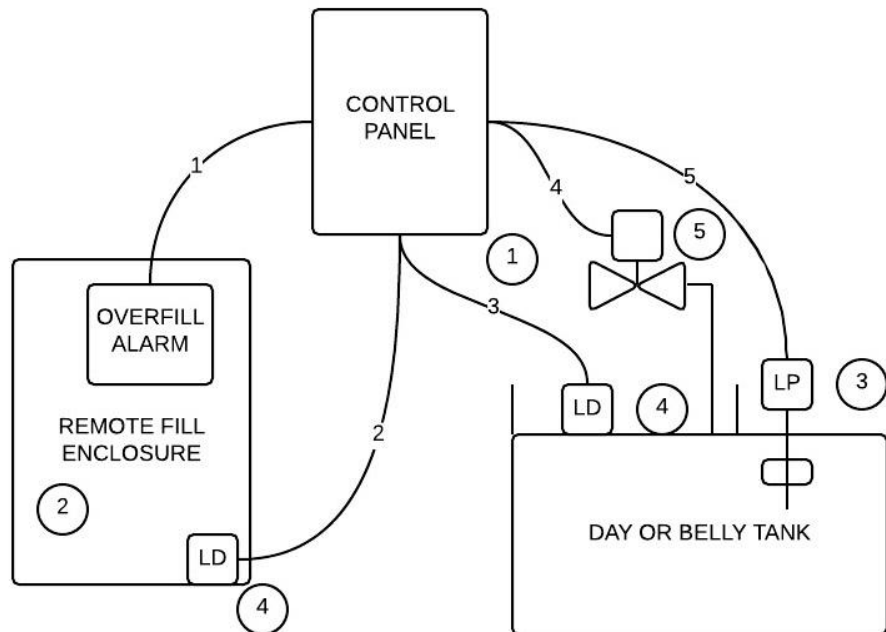
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# Remote Fill System

## Wiring Diagram and Power Requirements

ITEM	QUANTITY OF CONDUCTORS	DESCRIPTION
1	7 #16 for control	Remote Fill System wired with integral remote fill alarm. Control panel requires a dedicated 120 volt circuit. Remote fill enclosure light and horn receive power from the control panel.
2	2 #16	Leak Detector
3	2 #16	Leak Detector
4	2 #16	Level Probe
5	2 #16	Solenoid Valve



### WIRING FOR REMOTE FILL SYSTEM

Use #16 stranded THHN minimum for all control wiring. Use #14 stranded THHN minimum for power wiring. Wiring to be continuous from end to end with no splices. Tag wires with industry standard wire numbers. All wiring to be installed in conduit. All wiring and conduit to be installed as per Local Code requirements. Wiring may be run together in the same conduit.

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