

# Concealed Underground Remote Fill

Sometimes appearance issues or an inability to achieve code required clearances can mean there is no acceptable place to mount a remote fill panel for a generator.

The Concealed Underground Remote Fill solves these problems.



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The concealed underground remote fill is a welded steel secondary containment assembly that includes a hydraulic lift manhole cover and integral light, horn and silence switch. The unit is designed to be completely hidden from view. The concealed underground remote fill is ideal for applications such as glass buildings that cannot accept a surface mounted remote fill and for applications where there is insufficient code required clearance from building openings or vents. The unit is furnished complete with integral alarm light, horn and silence switch. The unit ships with a matching NEMA 4 control panel.





# Concealed Underground Remote Fill

## Specifications

<b>DIMENSIONS</b>	36" manhole cover, 20 inches deep from bottom of box to top of manhole cover. Box dimensions are 24" square, see installation instructions for box offset.
<b>WEIGHT</b>	185 lbs. fully assembled
<b>CONSTRUCTION</b>	Welded steel construction with welded interior piping. The remote fill includes the underground assembly, a remote control panel, a solenoid valve and a level probe.
<b>CONTROLS</b>	Ships with matching RFCP1, PLC control panel
<b>UL LISTING</b>	UL 508
<b>POWER REQUIRED</b>	120 volts, dedicated circuit at control panel.

## Ordering Information

**PART #:** URF1

**CONCEALED UNDERGROUND REMOTE FILL FULLY ASSEMBLED INCLUDES:**

- Dry disconnect and dust cover.
- Remote fill alarm panel with silence switch, light and horn.
- Remote control panel, RFCP1, single tank, shipped loose.
- solenoid valve, shipped loose.
- Level probe for tank, shipped loose.

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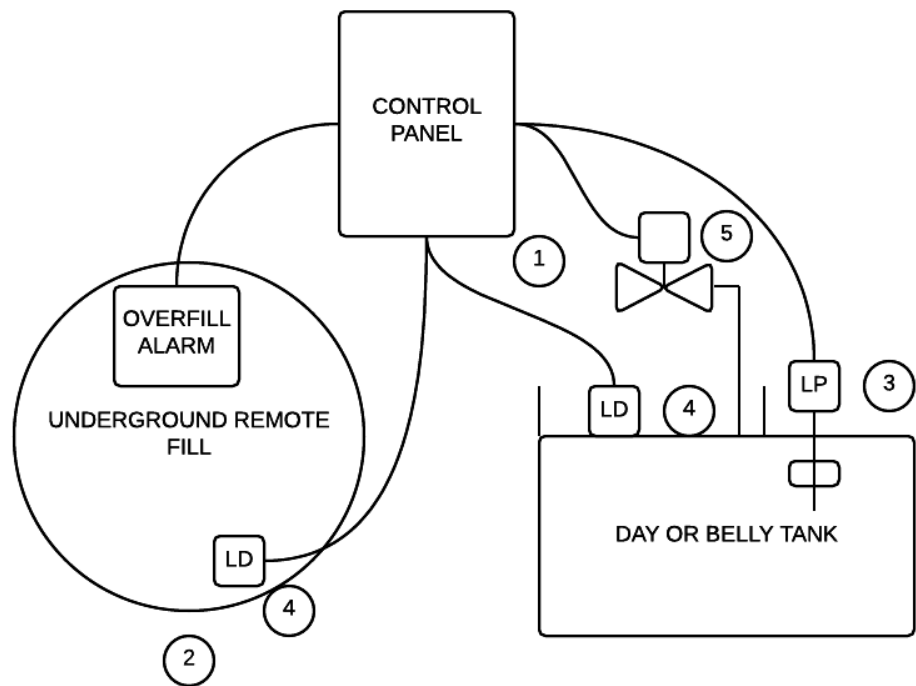
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## Schematic Diagram and Sequence of Operation

ITEM	QUANTITY	DESCRIPTION
1	1	RFCP1 control panel
2	1	Underground Remote Fill Assembly, piped and wired with integral remote fill alarm, dry disconnect and dust cover.
3	1	High level float switch
4	2	Leak detectors
5	1	Solenoid valve, 1 inch, N.O.



### CONCEALED UNDERGROUND REMOTE FILL

**Fill Enable Switch:** The system operator must place the fill enable switch into the "on" position for a fill operation.

**Control Function:** The control panel monitors the high level in the day tank or belly tank. When the fuel level reaches the high level, the alarm horn and light in the underground remote fill and at the control panel are energized as well as a normally open solenoid on the fill line. A system operator may silence the alarm local to the remote fill or from the control

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panel, but the alarm light will remain lit and the solenoid will remain energized until the fill enable switch is placed into the "off" position.

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

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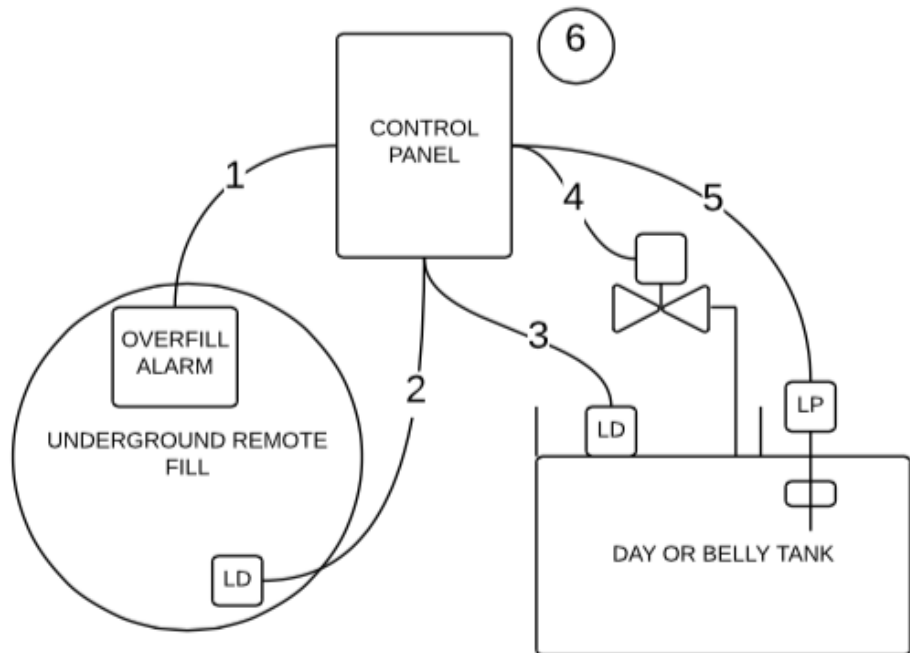
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## Wiring Diagram and Power Requirements

ITEM	QUANTITY OF CONDUCTORS	DESCRIPTION
1	5	Overfill Alarm
2	2	Leak Detector
3	2	Leak Detector
4	2	Solenoid Valve
5	2	High Level Float Switch
6	3	120 volts with ground for control panel



### WIRING FOR UNDERGROUND REMOTE FILL

Use #14 stranded THHN minimum for all wiring. Wiring to be continuous from end to end with no splices. Tag wires with industry standard wire numbers. All wiring to be run 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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