

Overfill Alarm Cabinet - OCA 51

Function

The Overfill Alarm Cabinet is the communication hub in the system. The cabinet is a self-contained unit with provisions for intrinsically safe connections to external units.

The signals from the Overfill Alarm Tank Gauge enter the cabinet through the tank interface. There will be one tank interface each for the High Level alarm and the Overfill alarm systems. Each tank interface is designed for connections of up to 6 channels and hence the cabinet can be connected with up to 12 sensors. This implies that, for a system with both High Level and Overfill alarm, one cabinet can handle up to six tanks.

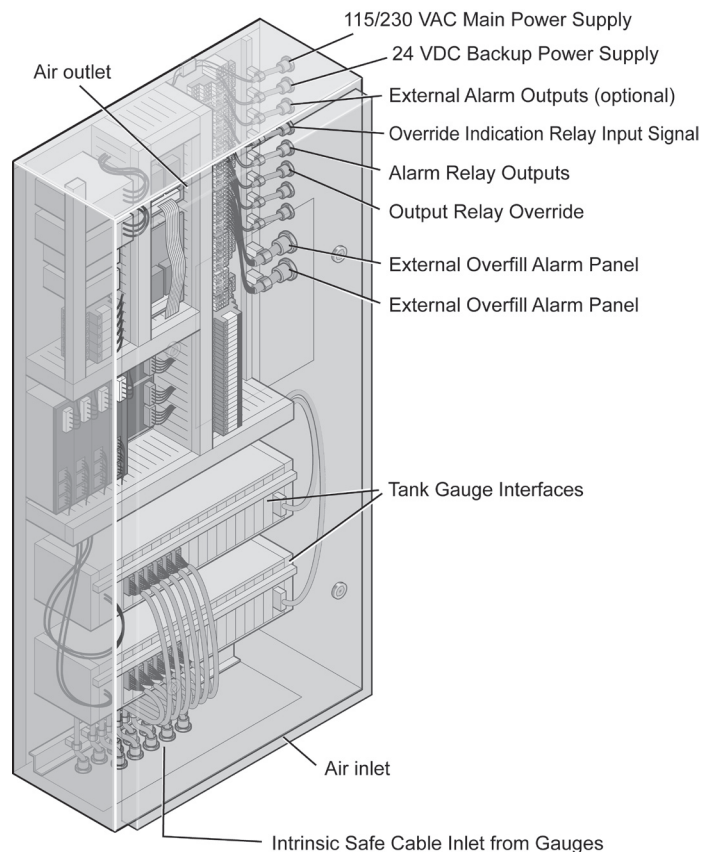
The cabinet processes the level readings and handles the communication to/from gauges and the Alarm Panel.

Electrical Connections

The Overfill Alarm Cabinet can be powered with two independent power sources, a main source and a backup source. The cabinet power supply is feeding all the units in the system including the intrinsically safe Overfill Alarm Tank Gauges and the alarm panel. Cables from the Gauges enter the cabinet through the bottom, all other cables enters through cable glands on the cabinet's side wall.


Mechanical Mounting

The Overfill Alarm Cabinet is placed indoors in a non-hazardous and ventilated area. The cabinet is bolted to the wall allowing adequate space around the cabinet and for a free air circulation.



Rosemount TankRadar® OFC

Technical Specification

Overfill Alarm Cabinet, OCA 51	
Dimension	600 x1250 x 300 mm (Width x Height x Depth)
Weight (typical)	Max 50 kg
External uninterrupted DC supply	24 V, +30%, -25% 4 A / system
AC Mains supply	115 V or 230 V ±10% 200 VA
Operating temperature	0 to 45 °C
Painting	RAL 7032
Sealing	IP22
Optional output relays	Alarm, Failure, Power, Override, Backup, External annunciators
Cable length to Tank Gauge Units	Max. 400 m
Explosion protection	Associated apparatus ATEX  II (1) G, CENELEC [Ex ia] IIC CSA (IEC) [Ex ia] IIC

Cable from Cabinet to Gauge	
Cable type	Multicore, 2 x 2 twisted wire cable with common screen to each measurement channel (2 channels for dual alarm system).
Lead area	0.50 - 1.5 mm ²
Outer diameter	10 to 25 mm

Cable from Cabinet to Alarm Horn	
Cable type	One pair
Outer diameter	Max. 10 mm
Cable length	Max. 50 m

Cable from Cabinet to Alarm Light	
Cable type	One pair
Cable length	Max. 50 m

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