Rosemount OCA 52
Overfill Alarm Cabinet

The Rosemount OCA 52 is the central unit in the Rosemount OFC system. The Rosemount OTG 51 Overfill Alarm Radar Gauges are connected to the cabinet and an alarm panel allows for the operator to interact with the system. The Overfill Alarm Panel OPA 52 can be selected mounted on the cabinet or separately to be placed else where.

- Delivers timely and accurate alarm information

- Provides two independent alarm channels, one for high level alarm and one for overfill alarm

- Meets requirements for all major marine classification societies

- Relay outputs for connection to ESD system

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Description

The Rosemount OCA 52 Overfill Alarm Cabinet is the center piece in the Rosemount OFC system. It collects the measurement data from the radar gauges and activates the respective level alarms when the predefined level limit is reached.

The Rosemount OCA 52 can provide two independent alarm channels, one for high level alarm and one for overfill alarm. If the system is to handle two independent level alarm limits, the cabinet contains a double set of all components, one set for each level limit. This way full independence between the the two alarm limits are achieved.

Relay Outputs

The OCA 52 can be equipped with relay outputs:
- One alarm relay per tank and alarm limit
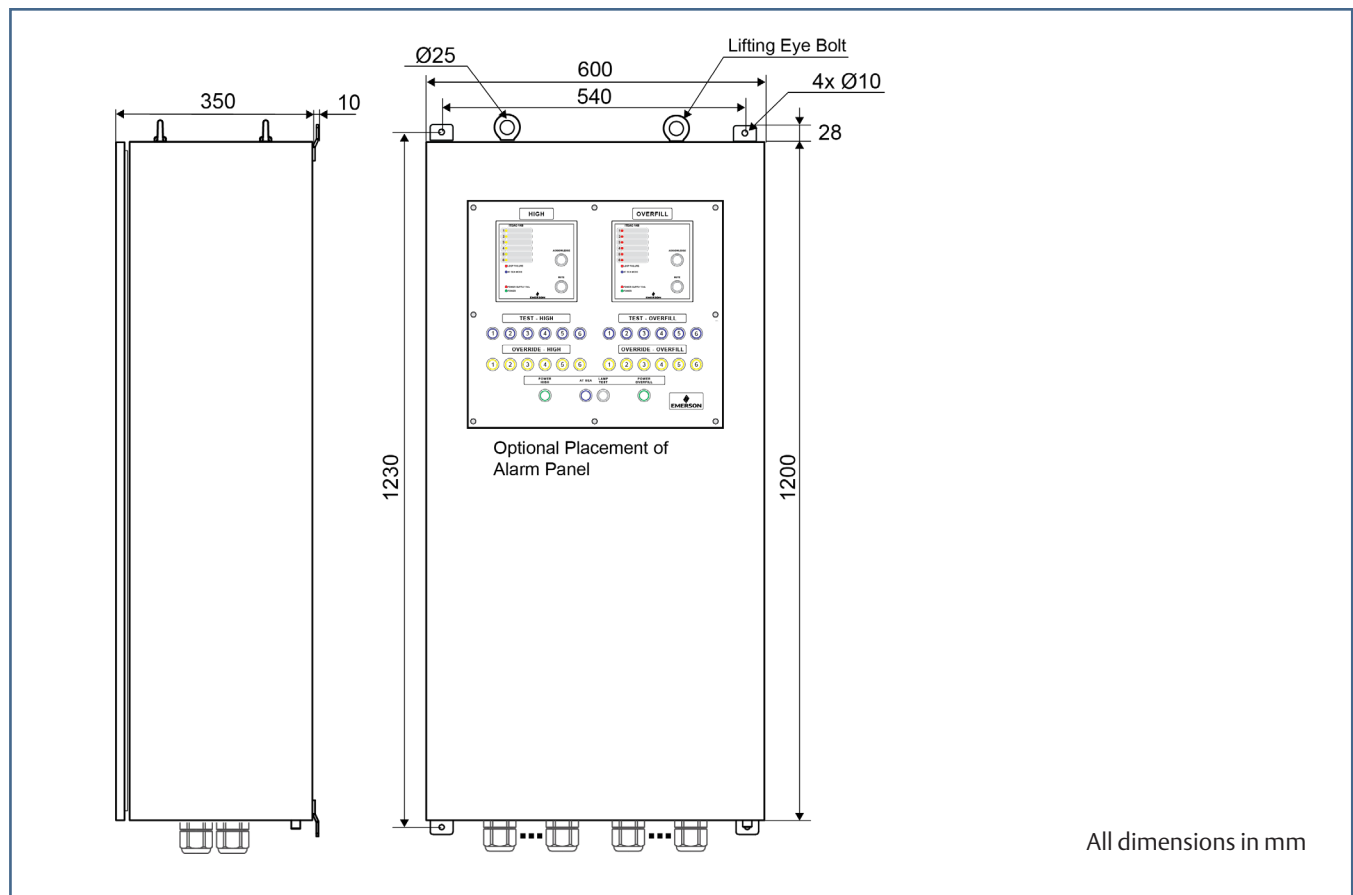- One loop fail relay per tank and alarm limit

Alarm Panel

The alarm panel OPA 52 gives the operator current and accurate status information as well as letting the operator handle and acknowledge alarms and test the system.

The OPA 52 can be mounted on the front door of the Overfill Alarm Cabinet or separately in a console placed in for example the control room. All alarms including external connected alarms annunciators are muted from this panel.

The Overfill Alarm Panel contains one LED for each channel and measuring point, loop failure and system failure indicators, push buttons for buzzer silence, acknowledge alarm and lamp test. A buzzer is included in the panel to audible indicate alarms. There is also one test button for each channel to simulate a raising level triggering the alarm at alarm limit (Alarm test). It is possible to test the individual alarm channels and also inhibit the relay outputs to an ESD system.
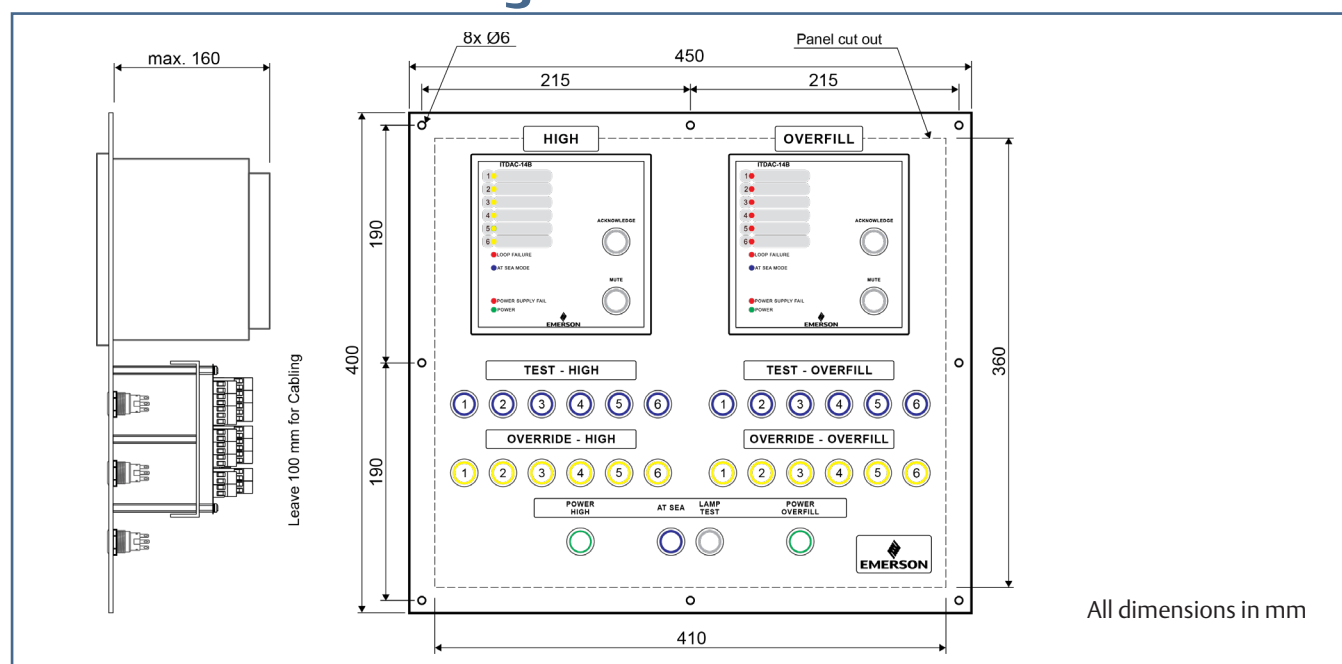
Dimensional Drawings - Cabinet

Optional Placement of Alarm Panel

All dimensions in mm

Technical Specification

Overfill Alarm Cabinet OCA 52	
General Specification	
Number of level sensors	6 OTG 51 with two channels each
Connection to Alarm panel	Multi core cable
Outputs	Relays for level alarms
Inputs	Digital input for alarm inhibit
Standard color	RAL 7035
Electrical Specification	
Power supply voltage	115VAC or 230VAC
Current consumption	Max 200VA
Mechanical Specification	
Material	Painted mild steel
Weight	73 kg
Environment Specification	
Operating temperature	0 to 45 ℃
Operating humidity	20% to 80% (non-condensing)
Ingress protection	IP22
Approvals	
Marine approvals	ABS, BV, CCS, DNV-GL, KR, LR, NK, RINA
Explosion protection	Intrinsically safe associated apparatus: ATEX: II(1)G [Ex ia Ga] IIC IECEx: [Ex ia] IIC INMETRO: [Ex ia Ga] IIC

Dimensional Drawings - Panel

All dimensions in mm

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Emerson is a world-leading provider of marine solutions with engineering excellence, decades of industry experience and global presence supporting any ship anywhere. All marine systems and solutions are designed especially for the harsh marine environments, engineered and manufactured in-house by our skilled teams of marine engineers. Emerson is well-known in the industry and has more than 50 years' experience with a large installed base and covers well-known marine brands such as Rosemount, Micro Motion and Damcos. Supporting marine customers from a global network of sales and service hubs along the maritime highway.

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