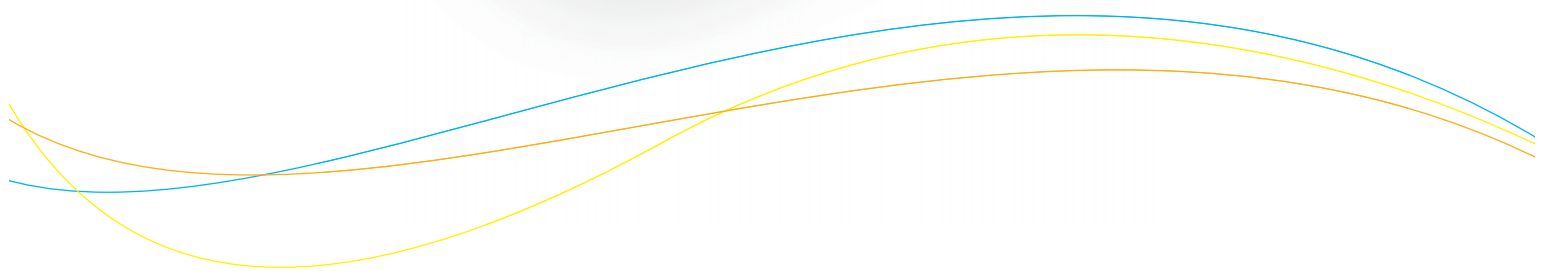# CENTURION™

## Independent High Level Overfill Alarm System

CENTURION™ is a high level & overfill alarm system designed in compliance with USCG & IMO requirements for tankships. Electrically independent alarm systems for both 95% & 98% tank levels are housed in the CENTURION™ controller in the cargo control room.

Level detection is carried out by MM500™ stainless steel float switches which are offered in either dual or single (overfill) versions. Optionally we offer the MM502™ ultrasonic switch, which has no moving parts and is also available in dual or single versions.

Local audio/visual alarm indication is provided for each tank together with relay contacts for remote alarm annunication.

- Stainless steel / weatherproof alarms
- Intrinsically safe
- Complies with USCG, IMO and general Class rules
- Fully checkable at sensor head
- Worldwide service, commissioning and back-up

# CENTURION™

## Specifications

### Control Panel

| | |
|---|---|
| **Inputs** | • 24No. switched inputs |
| **Indicators** | • 1No. Red LED per input, Green power LED, common Amber fault alarm LED |
| **Environmental Data** | • -10°C to + 50°C, 0-90% RH, IP54 |
| **Dimensions** | • 296mm(W) x 260mm(H) x 140mm(D) |
| **Fixing Detail** | • 4No. M6 appropriate fasteners (4 No. M4 fasteners for console mounting) |
| **Weight** | • 3.6 kg |
| **Cable Entry** | • Top, bottom, or rear |
| **Alarm Relays** | • 4No. SPCO rated 5A @ 230V ac latched until reset, SPCO mains fail/fault relays rated 5A @ 230V ac |
| **Audible Alarm** | • 85dB(A) @ 30cm |
| **Power Supply** | • 230V ac/ 110V ac and/ or 24V dc alarms, fully latched relays, remote re-set front cover lock |

### MM502™ Ultrasonic Level Switch

| | |
|---|---|
| **Material** | • AISI 316SS ultrasonic switch |
| **Weight** | • 6kg (Approx) |
| **Maximum Working Pressure** | • 40 bar |
| **Operating Temperature** | • -40°C to +90°C |
| **Switching Output** | • Current output (2 wires) On/Off 5mA/ 14mA |
| **Ingress Protection** | • IP68 |
| **I.S. Operation** | • With suitable galvanic barrier |
| **Cable Type** | • 4 –core min 1.5mm2, M20 x 1.5P gland |

### MM500™ Dual Float Level Switch

| | |
|---|---|
| **Material** | • 316SS float switch |
| **Weight** | • 6kg (Approx) |
| **Maximum Working Pressure** | • 5 bar |
| **Operating Temperature** | • -40°C to +150°C |
| **Specific Gravity** | • Hermetically sealed switch |
| **Ingress Protection** | • IP68 |
| **I.S. Operation** | • With suitable Zener barrier |
| **Cable Type** | • 4 –core min 1.5mm2, M20 x 1.5P gland |
| | |