

# 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 annunciation.

- ④ STAINLESS STEEL/ WEATHERPROOF ALARMS
- ④ INTRINSICALLY SAFE
- ④ COMPLIES WITH USCG, IMO & GENERAL CLASS RULES
- ④ FULLY CHECKABLE AT SENSOR HEAD
- ④ WORLDWIDE SERVICE, COMMISSIONING & BACK UP



# SPECIFICATIONS

## CONTROL PANEL

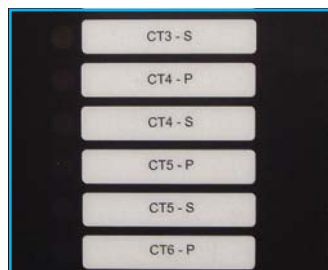
<b>Inputs</b>	24No. switched inputs	<b>Alarm Relays</b>	4No. SPCO rated 5A @ 230V ac latched until reset, SPCO mains fail/fault relays rated 5A @ 230V ac
<b>Indicators</b>	1No. Red LED per input, Green power LED, common Amber fault alarm LED	<b>Audible Alarm</b>	85dB(A) @ 30cm
<b>Environmental Data</b>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

## MM502™ ULTRASONIC LEVEL SWITCH

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

## MM500™ DUAL FLOAT LEVEL SWITCH

<b>Material</b>	316SS float Switch	<b>Specific Gravity</b>	0.6 minimum
<b>Weight</b>	6kg (Approx)	<b>Switching Output</b>	Hermetically sealed switch
<b>Maximum Working Pressure</b>	5 bar	<b>Ingress Protection</b>	IP68
<b>Operating Temperature</b>	-40°C to +150°C	<b>I.S. Operation</b>	With suitable Zener barrier
		<b>Cable Type</b>	4-core min 1.5mm <sup>2</sup> , M20 x 1.5P gland



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