

BALLAST CONTROL & MONITORING SYSTEM



THE EFC GROUP BALLAST SYSTEM AND IMMS IS A ROBUST SOLUTION WITH CENTRALISED ARCHITECTURE

The EFC Ballast System typically includes Tank Gauging and Control of Ballast Pumps & Valves. Tank Gauging can incorporate Pneumatic Bubbler Controllers, the optimal solution, or Ultrasonic, Submersible & Radar sensors. The type of sensor is dependent on status of functioning sense lines, free from marine growth and the content of the tanks.

A central PLC architecture combined with Remote I/O (RIO) minimises onsite installation labour. The Fibre Optic network also provides installation time savings, as well as providing options for dual network and redundancy of this safety critical system.

The user interface can be either a traditional vessel mimic with LED status indication and pushbutton control or via Touchscreens or a combination of both. Client has final sign off for interface layouts and design ensuring this important interface meets user demands and ergonomics.

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DESCRIPTION	TECHNICAL SPECIFICATION
Zone Rating	Safe Area, Zone 1 or Zone 2 as applicable
Compliance	DNV / ABS / ABS-CDS / Lloyds / BV / MODU 2009 as required
Operating Temp (User Console)	+5°C –to +40 °C – typically and environmentally controlled room
Operating Temp (excl'd User Console)	- 20 °C to +50 °C
IP Rating	IP65 / IP66 combination
Documentation Included	User Manual (UM) & Manufacturer Databook (MDB)
Certification	3 rd party design approval as required
NB: technical data may be subject to change	

DESCRIPTION	BENEFIT
Pneumatic Bubbler Controller	<ul style="list-style-type: none"> • Auto purge via pulse air flow • Self diagnostic • Self calibration • Local display • Gauges drill mud over the long term
Archive	Data stored for minimum 30 days for all monitoring parameters
Expansion	Modular upgrades over time give economical solution
Diagnostics	All sensors, PSU, I/O and Comms monitored for positive feedback
Warranty	2 years, extendable to 5 years with annual service visits

EXPANDABILITY

The EFC ballast control and monitoring system can be extended to become an IMMS system, this acts as a central system architecture and archive for Marine data. The system can have functional monitoring modules added over a period of time to include:

- Heave sensors; helideck & motion compensation
- Environmental metrics
- Bilge level
- Leak detection, void & bracing
- Chain locker leak detection
- Water tight and/or Weather tight door
- Heel and trim



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