



SMARTSHIP POWERBUS

Smart RingBus technology for highly available valve control systems with significant cabling and installation savings

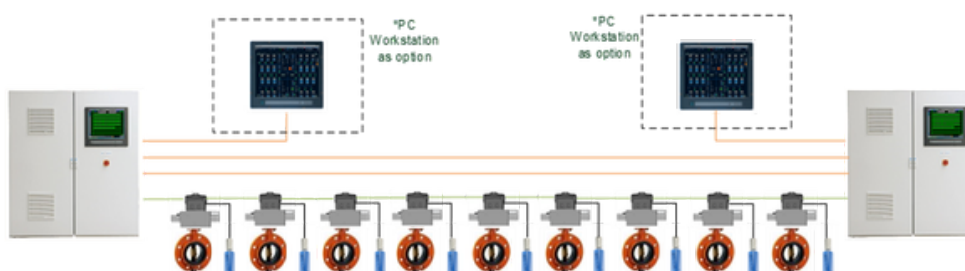
SMARTSHIP POWERBUS combines electric and electro-hydraulic actuator control in a single RingBus network. The system reduces cabling, installation effort and weight while providing high availability through intelligent redundancy and automatic failure management.

Why Smartship Powerbus

- Low cost – significant savings on material and installation cost.
- Work done – short commissioning time due to easy connection / failure detection.
- Less fuel and more space – weight reduction by cable saving.
- Ensures highest availability – automatic failure detection, isolation, and re-routing.
- Simplified maintenance – clear fault identification and guided troubleshooting reduces the crews downtime.
- Future-ready – flexible system design enables easy upgrades and extensions throughout the vessel's lifetime

System Design

- Up to 7 RingBus loops
- Up to 64 actuators per Local Processing Unit (LPU)
- System size up to 448 actuators, Loop lengths up to 1,000 m
- Up to 4 external sensors per actuator/LPU
- Maximum of 6 actuators operated simultaneously per loop
- Flexible redundancy concepts according to vessel requirements



Safety Concept

- Automatic failure detection and isolation
- Dual cabinet Safe Return to Port concept available
- Parallel operation of master and slave control cabinets
- Automatic takeover in case of controller failure
- Independent power supplies with switch-over function
- Designed for maximum system availability in critical situations

Smartship Powerbus Compact

- Maximum functionality within minimal space
- 1 Compact control cabinet with monitor
- All advantages of the SSPB system are retained
- SSPB Compact as the ideal solution for confined installation environments
- SSPB Compact has 20 - 25% lower manufacturing costs compared to Star wired System

OUR PRODUCT RANGE

Fluid & Floating

- Valve Remote Control
- Anti-Heeling
- Tank Gauging
- Flume Anti-Rolling
- Interling Anti-Rolling
- Distance Measuring
- Draught Measurement
- Electronic Inclinator
- Dynamic Draught and Floating Monitoring
- Floating Condition Control

Performance & Energy

- Emission Monitoring
- Energy Measurement
- Shaft Power Meter
- Fuel Measurement
- Energy Saving Solutions
- Crew Connect
- Performance Monitoring
- Data Collection and Acquisition

Fleet Services

- Spare Parts
- Technical Service
- Retrofit- And Upgrades
- MIoT Digitalization Upgrade

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