SEA has developed a rugged Subsea Electronics Module (SEM) designed for installation in Subsea Control Module (SCM) applications where circumstances prevent the use of the original equipment.

The SEM provides reliable effective control and monitoring of subsea production control assets in brown field development, obsolescence, end of field life, and decommissioning applications where OEM support is not an option. The SEM is built using commercial off-the-shelf components and runs on a robust Linux-based real-time operating system. Additionally, a topsides Master Control Station (MCS) can be provided as an option within the SEM. The topside communications and subsea hardware interfaces are designed to be compatible with legacy seabed and topside hardware, while forming the basis for the SEA SCM.

- Legacy OEM equipment support and compatibility
- Designed and built using components off the shelf
- Optional topsides Master Control Station
- Software updated and downloaded from surface
- Comms on Power Option
- Fast-scan valve profiling and trending
- SEA secure networks protocols for ethernet communications
- Designed for repairability and obsolescence

Applications

- Single/dual
- Decommissioning
- Marginal field life extension
- Abandonment monitoring
- Legacy
Technical Specifications

• Power Specs: 250W / 100VAC-600VAC – 50/60Hz
• Linux real time OS
• Channels: 6 CAN bus, 32 modbus, 8 ethernet, 128 analogue, 64 solenoid
• Transparent communications
• Remote Data Processing
• Valve Profiles
• Data Logging
• Start-up Diagnostics
• Compliant with ISO 13628

Customer Benefits

• Ultra-low power consumption (18W idle)
• High I/O density
• Combined power/signal
• Fibre optic options
• Cost-effective
• Short lead-time
• Bespoke engineering
• Client designed interface