Proserv Subsea Control Module (SCM)

Proserv's Electro-Hydraulic Subsea Control Module (SCM) is a modular design concept incorporating well-proven technology and qualified components to minimise both CAPEX and OPEX costs. The integrated system provides the requisite monitoring, control and shutdown functions for subsea production wells, injection wells, manifolds, PLEM, and work-over controls by means of a multiplexed electro-hydraulic control, utilising separate or superimposed communications and power between a surface Master Control Station and Subsea Control Module, via a composite services umbilical.

The integral Open Communication Controller (OCC) within a dual or single SEM arrangement in the Subsea Control Module provides the operator with an open platform for new and existing subsea developments. This open platform can be used to provide intelligent communication that is independent of protocol, IWIS compliant, can integrate with all major subsea tree manufacturers and interface with all associated third party subsea devices, The intelligent nature of the technology actively determines the optimum operating frequencies and thereby maximises performance over subsea cables. This digital adaptation to external noise, cable construction, and other environmental factors, enables high communication speeds of up to 1.3 Mbps and long distance step-outs.

Features & Benefits

- Total of 26 hydraulic functions on the standard module with up to 4 HP functions or 40 functions using the extended module
- Dual Open Communication Controllers featuring high performance band width, data rate and operational frequencies
- Qualified for 3000 m deployment depth
- Open or closed system hydraulic control
- Available as Free Wire Deployed, ROV Assist Running Tool Deployed, or Diver Only System
- Supplied as Active or Passive mounting arrangement
- Can be mounted on subsea xmas tree, manifold, PLEM or even UTA

Technical Specification	
Footprint (L x W x H)	850 square x 680 mm high
Weight	560 kg in water, 800 kg in air depending on functionality
Hydraulic supplies	Dual hydraulic supplies with 1035 bar HP and 345 bar LP design pressure
Design specification	ISO 13628-6 and API 17F
Design depth	3000 m
Hydraulic functions	26 functions - 207 bar, 345 bar, 517 bar, 690 bar up to 1034 bar (40 functions for extended module)
Monitoring interfaces	Analogue (4-20 mA), Ethernet, RS482, RS422, 24Vdc, CanBus Open, SIIS and IWIS

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