

Artemis 2G SEM - Subsea Electronics Module

The Artemis 2G or A2G is the next generation of the field proven Artemis Subsea Electronics Module for subsea control and communications. It delivers a backward compatible yet enhanced industry compliant solution for both single and dual SEM applications.

Using a truly modular architecture A2G provides fully qualified robust and flexible options to meet exacting client and industry requirements. At its core Proserv's leading copper based communications technology optimises functionality and support to deliver subsea network flexibility, performance and transparency.

With an inbuilt web-interface the A2G ensures complete visibility to all of the physical and communication interfaces. Extensive inbuilt diagnostics accessible remotely via a client secure network link can provide specialist user support including the provision of enabling third-party systems access. Additionally A2G includes key environmental (humidity, temperature and pressure) and performance (voltage and current) data in addition to SCM water ingress detection data to the host system.

The Proserv A2G SEM and its Open Communication Hub (OCH) technology products provide the opportunity to support both green and brown field developments for both data and production systems alike. The Proserv copper based power-line communication system provides cost effective and flexible field architectures including the capability to implement co-exist solutions. In conjunction with transparent IP based architectures utilising fibre optic and DSL Proserv deliver truly industry leading solutions.

Features & Benefits

- API 17F compliant and fully ISO 13628-6 qualified design for both single and dual SEM applications
- Flexible and transparent IP based architecture to provide co-exist with existing networks, delivering high performance and cost effective multi-drop power-line communication solutions;
- In-built web interface provides remote diagnostic and performance monitoring delivering true desktop to subsea support capability
- In-built obsolescence resilient design delivering a fully backward compatible solution whilst supporting enhanced industry compliant solutions
- A key element in the Proserv integrated product range the OCH can deliver combined fibre/ copper networks for data and production control systems
- Subsea data report by exception - latest data is automatically transmitted to topside on change



Technical Specification

Physical (diameter, height, weight)	Ø 240 x 695 mm (9.4 x 27.4 in) 105 kg (232 lb)
Environmental thermal ratings	Design: -18°C to + 40 °C Operating: -5°C to +40 °C Storage: -18°C to +50 °C
Qualified design depth	Standard housing: 3048 m (10000 ft)
Power input	90-264 VAC @ 250 W maximum, 47 - 63 Hz
Power output	Analogue and digital loops: 24 VDC @ 90 W maximum External subsea instrumentation: 27 VDC @ 200 W maximum
Communication to host system	Power line - FSK up to 390 kbps or OFDM up to 1.3 Mbps (fibre optic networks require use of Proserv OCH)
Communication to subsea equipment	SIIS level 2 (CANOpen) SIIS level 3 (Ethernet) IWIS (RS422) Proprietary interfaces supported based on RS4XX or proprietary interface boards
Design life	25 years

ingenious simplicity

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