TECH PAPER



SYSTEM INTEGRATION FOR CONTROL SYSTEMS TOWARDS UNMANNED SURFACE VESSELS (USV) AND AUTONOMOUS SURFACE VESSELS (ASV)

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CONTROL SYSTEMS

The Tranberg range of control systems are all prepared for remote control and monitoring. Most systems include the gateway functionality as standard, while two systems require an additional module to be added. All interfaces have a long track record of use for maritime and/or oil and gas applications, with several leading bridge suppliers as integrators.

The listing below shows all systems and available protocols, and reference documents for further information.

LIST OF CONTROL SYSTEMS

System	Description	Standard Interface	Required Gateway Module Part No	Optional Interface	Approval	Reference document
TEF 1070	Winterization Control Panels	Modbus RTU RS-485			PLC is DNV-GL approved	TUM6345 (RS-485) TUM6346 (RS-422)
TEF 2650	Commander Searchlights	Proprietary NMEA-0183 on RS-422	Gateway P/N 2618100018	Profinet or Modbus with PLC as protocol converter	No requirement	TUM6269 (standard interface)
TEF 4500	Commander Utility	Proprietary NMEA-0183 on RS-422	Gateway P/N 4500800		No requirement	TUM2482 (standard interface)
TEF 4600	Helideck Lights Control System	Modbus TCP/IP		Modbus RS-485 w/ serial module Modbus RS-422 w/ serial module	PLC is DNV-GL approved	
TEF 4900	Commander Navigation and Signal Lights Controller	Proprietary NMEA-0183 on RS-422			System approval by DNV-GL	TUM2481 (standard interface)
TEF 9980	Status Light Standalone Control System	Modbus TCP/IP			PLC is DNV-GL approved	