DARPS 900B TELEMETRY





Kongsberg Telemetry system is based on dual (fault tolerant) SeaGnal MB45 controller units with built-in UHF transceivers for safe and reliable 'Green-line' control in offloading operations.

Kongsberg Telemetry system enhances control and safety during offloading operations by providing real-time 'green-line' offloading control activated manually or automatic.

The system is based on dual SeaGnal MB 45 controllers operating in parallel on different frequencies for enhanced redundancy. SeaGnal MB 45 is a software defined radio and provides internal processing capacity for complex computations.

Exclusive 'one-to-one' communication links are established between the Telemetry systems on the FPSO and the Shuttle Tanker in the 450 MHz frequency band. A built-in mechanism preventing 2 or more SHT to connect to the same FPSO, to avoid false 'Green-line' status received by the FPSO. Unapproved attempt to connect to the FPSO will be rejected by the FPSO.

Kongsberg Telemetry can be interfaced to the vessel's control or automation system for automatic control of the 'Pumping permitted' signal.

The Telemetry system can work as a standalone system on both the FPSO and the Shuttle Tanker, but can also be integrated with the vessel's DARPS system for control and monitoring of 'Green-line' status.



TECHNICAL SPECIFICATIONS

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INTERFACE SPECIFICATIONS 1)

Serial ports	1 x RS-232
	2 x RS-232 galvanically
	isolated with common
	ground, rear mounted
Network	1 connection, rear mounted
USB	1 connection, front mounted

INTERFACE SPECIFICATION 2)

Controller moduleNetwork2 connections, lower cabinetAnalogue input0-20 mA, 4-20 mA, 0-10 VDigital input24 V

RADIO FREQUENCY SPECIFICATIONS

Frequency Range MB 45450 to 470 MHzChannel spacing12.5 kHzSensitivity<-115 dBm for BER=10^-5</td>

WEIGHT AND OUTLINE DIMENSIONS SeaGnal MB45

Width, height, depth

Power consumption

Weight

Voltage

485 x 44 x 348 mm (incl. mounting bracket) 3 kg 100 to 240 VAC, 50/60 Hz 7 W (typical)

WEIGHT AND OUTLINE DIMENSIONS

Controller module	
Width, height, depth	400 x 150 x 150 mm
Weight	7 kg
Power	100 to 240 VAC
	50/60 Hz
Power consumption	30 W (typical)

ENVIRONMENTAL SPECIFICATIONS

Operating temperature -1 Operating humidity Ma no Ingress protection Fr

-15 °C to +55 °C Max. 95 % non-condensing Front IP44, rear IP20

PRODUCT STANDARDS

Electrical safety Electromagnetic compatibility (immunity/radiation) Radio spectrum matters Standards IEC 61010-1/EN 61010-1

IEC 60945/EN 60945 ETSI EN 300 220-1 v2.4.1 ETSI EN 300 220-2 v2.4.1 Anatel, Australia and Russia

ENCRYPTION

This product contains no encryption.

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