



Gateway

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Gateway is a subsea power & controller unit for providing 24 VDC power, Ethernet and MODBUS RTU communication to external units. It is powered by 3 phase 230 VAC.

It also includes interfaces for monitoring LIM, temperature and water ingress sensors on external units.

The unit is nitrogen filled and designed for external working pressure up to 3000 meters.

Key features

- Control interface: Modbus TCP
- 8 individually controlled switchable power outputs with electronic fuses and 2-pole relays
- Isolation monitoring
- Current measurement on each output
- 8 ethernet and 2 serial outputs
- 1200 W total power
- Field proven

ENVIRONMENTAL DATA

Design life (maintainable):	20 years
Continuous submerged operation:	Up to 3 weeks
Design temperature range:	-18 °C to 40 °C
Operation temperature range:	-18 °C to 40 °C
Storage temperature range: (storage temperature above 0 °C is preferred)	-18 °C to 50 °C
Water depth rating:	3000 msw

MATERIALS, DIMENSIONS AND WEIGHT

Diameter:	278 mm
Length (incl. electrical connectors):	642 mm
Weight in air:	90 kg
Weight in water:	56 kg
Lifting RUD eye bolts:	M12 bolts
Material:	Duplex

ELECTRICAL

Input:

- 230 VAC 50 / 60 Hz
- Signal input: Ethernet

Power outputs (C3 - C10):

- Total power output: 1200 W
- Voltage: 12-48 VAC
- I_{max}: 6 A

Signal output:

- Ethernet (C3 - C10)
- Modbus RTU (C9 - C10)

Sensors and monitoring:

- Water ingress
- Temperature
- Humidity
- Isolation monitoring of 230 VAC (L1, L2, L3)

