

OE10-103



KONGSBERG



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MULTI-PURPOSE ROTATOR

- **Extremely durable and compact design**
- **Innovative high torque gearing**
- **Digital or analogue control**

The Kongsberg Maritime OE10-103 is an electric multi-purpose rotator unit offering exceptional torque, positioning performance and durability for the toughest subsea tasks. Its compact robust design, high shock & vibration tolerance and other environmental and electrical protection features ensure continuous performance in the harshest environments. Low noise levels and a high degree of positioning accuracy and control, makes the OE10-103 perfect for a wide range of sensors, especially forward-looking scanning and multibeam sonars that require further rotation on one axis.

The OE10-103 is available with two control configurations, RS485 half duplex serial control and RS232 serial control.

Graphic User Interface (GUI) software is provided as standard and control protocol can be supplied on request. Use of the GUI allows full rotator control, including: speed, "go to" functions and rotation travel limits.

The OE10-103 uses an innovative high torque gear system enabling a high torque output (up to 35Nm from a 24V power input), minimal backlash and high positional accuracy and repeatability.

The pressure housing is manufactured from stainless steel as standard and incorporates a pressure compensation unit for reliable deep water operation to 6,000 msw.

Electrical end stops limit rotation excursion and can be set up via the GUI. Mechanical over-travel stops can be fitted externally in 30 degree steps.

Applications

- **Directing cameras, sonar and any other underwater equipment that requires single axis movement and accurate positioning**

TECHNICAL SPECIFICATIONS

Performance

Output Torque	30 Nm (dependent on output speed)
Holding Torque	35 Nm
Sacrificial Shear Pin Torque	45 Nm
Output Speed	13 to 30 degrees / second
Mechanical End Stops	May be fitted every 30 degrees.
Software End Stops	May be set through GUI
Backlash	± 0.08°
Payload	25 kg / 55 lbs (max in air)

Electrical

Power Input	12 to 24V dc, 2.8A (max)
Control	RS232, RS485 Half Duplex
GUI	Inclusive
Kongsberg Protocol Document	0350-5020
Position Feedback	8 bit serial giving ± 2° accuracy

Mechanical

Dimensions	Length: 133 mm Width: 108 mm (excl. connector and pressure compensator)
Weight	In air: 5.5 Kg, In water: 4.5 Kg
Housing Material	Stainless Steel
Connector	Burton 5506-2008
Pressure Compensation	Oil filled bladder type compensator

Environmental

Operating Depth	6,000 msw
Temperature	Operating: -5 to 40°C, Storage: -20 to 60°C
Shock	30G peak acceleration, 25ms half sine duration, on all three axes
Vibration	10G, from 20 to 150Hz on all three axes
Electromagnetic Compatibility	BS EN 61000-6-3: 2001 Emission and BS EN 61000-6-1: 2007 Immunity

Options

Payload Mounting Brackets (right angle or direct drive)
Other connector options available

Specifications subject to change without any further notice

OE10103_Datasheet_US / Rev.B

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