Multi-purpose pan & tilt



- Extremely durable and compact design
- Harmonic gearing
- Digital or analogue control

The new OE10-102 is an electric multi-purpose pan and tilt 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.

The OE10-102 is either controlled directly by application of hardwired controls interfaced to manually operated switches or to existing ROV outputs (24VDC or optional 110VAC) or by use of a digital command via RS485 half duplex or RS232 serial data link.

Graphic User Interface (GUI) software and 9 BIT serial feedback is provided as standard and control protocol can be supplied on request. Use of the GUI allows full pan and tilt control, including: speed, "go to" functions and tilt travel limits.

The OE10-102 uses innovative Harmonic Drive gear systems 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 6000m.

Electrical end stops limit both pan and tilt excursion. These can be set up via the GUI or by use of a non-penetrating magnetic switch. RS232 or RS485 can also be selected using this magnetic switch. Mechanical over travel stops can be fitted externally in 30 degree steps.

Standard Features

Electrical

Input Voltage 12 to 24 VDC (110VAC optional)

Maximum Current 2.8 amps per axis

Maximum Output Torque P&T 30 to 35 Nm (depending on voltage and

control type)

Nominal Output Speed 13 to 30 Deg/second

Limit Switches External adjustable magnetic stop

positions

Electrically adjustable by digital control
Position Feedback 9 bit resolution accuracy serial output

(approx 0.7°)

Control Switched - Direct application of ± 12 to

24VDC

Digital - RS485 Half Duplex (multidrop)

or RS232.

GUI is inclusive. Control protocol

available

Protection Over-voltage protection on digital inputs

and outputs

Electro-Magnetic Compatibility BS EN 61000-6-3 2007 Emission

BS EN 61000-6-1 2007 Immunity

Environmental

Operating Depth Up to 6000 metres

Temperature Range Operating -5°C to +40°C

Storage -20°C to +60°C

Shock 30g peak, 25 ms half sine pulse
Vibration (non-operating) 10g, 20Hz to 150Hz in all three axes

Mechanical

Gearbox Harmonic Drive
Maximum Payload 25kg (55lbs) in air

Backlash ±0.08°

Dimensions 169mm (H) x 150mm (L) x 152mm (D)

Housing Material Stainless Steel as standard
Weight 9.5kg in air, 7.6kg in water
Pressure Compensator Integral Pressure Compensation

Connector Burton 5506-2008 as standard (Other options available, including

Subconn BH 8M)

Optional Payload Mounting Brackets (Right

Angle or direct drive)



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