KPT-45 PAN & TILT UNIT

Powerful unit for WROVs down to 6000m water depth



KPT-45Dual axis - External compensator

Available compensator interfaces:



Flared JIC 37° Fitting

1/8" BSPP Tread

PB4 hose

KEY FEATURES

- · Dual axis unit
- Rugged construction and mounting holes
- High torque heavy payloads can be added
- 90 or 120 Nm units
- RS-232, RS-485 or 100 Mbps Ethernet
- · Absolute position sensor
- ± 0.1 deg accuracy; ± 0.01 deg on request
- 24 to 48 VDC input voltage range
- No rotating connector at unit
- · External compensator interface
- 6,000 Meter (20,000 ft)

Our unit is designed for continuous hard use on Work Class ROVs.

Equipped with absolute position sensors there is no need to find end-stops at start-up.

Withstands heavy payloads without compromising with absolute accuracy.

To be connected to an external compensator.



KPT-45 SPECIFICATIONS

Electrical:

Input Voltage	24-48 VDC
Drive Current	Up to 2.5 A each axis
Communication	RS-232, RS-485 (2 wire) or 100 Mbps Ethernet (down to 1000m, 3000 ft)
Connector	Customer selectable (Seacon 5 pin standard)

Mechanical:

Angular Limits	Pan range: ± 175° Tilt range: ± 175° (depending on yoke)
Angular Speed	Up to 30 deg/sec (Pan and Tilt simultaneously)
Torque @24VDC, performance at 48VDC even better	90 Nm holding torque *) - 75 Nm (55 lb/ft) < 8 deg/sec - 60 Nm (44 lb/ft) < 15 deg/sec - 45 Nm (33 lb/ft) up to 20 deg/sec
Max Payload **	100 kg (220 lbs)
Position Feedback	12 bit accuracy absolute, approx. ± 0.1° 15 bit ± 0.01° on request
Gears	Precision strain wave
Backlash	< 3 arc minutes (< 0.05°)
Compensator	External

Environmental:

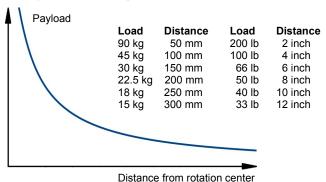
Operating Depth	Down to 6,000 m (20,000 ft)
Temperature Range	-20°C to +50°C (-4°F to +122°F) operating -30°C to +60°C (-22°F to +140°F) storage

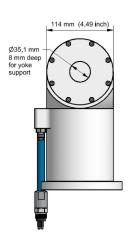
Others:

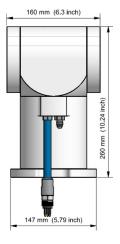
Others.	
Size (H/W/D)	260 x 160 x 114 mm (Flange Ø147 mm) 10.24 x 6.3 x 4.49 inch (Flange Ø5.79 inch)
Materials	Hard anodized Aluminum or Titanium
Weight in Air	8.8 kg (19.46 lbs) (Aluminum unit)
Weight in Water	5.4 kg (11.9 lbs) (Aluminum unit)

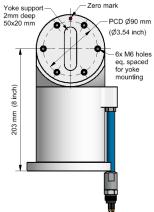
^{*) 120} Nm unit available with different gear ratio

**) Payload Torque diagram (in air)

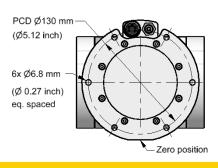








Mounting holes (bottom view):





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