



arctic rays

HAMMERHEAD

Miniature Pan & Tilt Positioner

FEATURES

- ▶ Ultra-compact Pan & Tilt positioner
- ▶ Absolute position feedback
- ▶ Unlimited rotation in both axes
- ▶ High Torque
- ▶ Variable-speed brushless motors
- ▶ Corrosion-resistant 316 Stainless Steel housing
- ▶ Air-filled to 1000m (3300ft) or pressure-balanced, oil-filled to 6000m (20000ft)
- ▶ Multi-drop RS232 control with soft-addressing allows up to 250 units on a single serial port (power permitting)
- ▶ ASCII protocol and Windows GUI
- ▶ User-settable soft-stops
- ▶ Wide input supply



PARAMETER	SPECIFICATION
Model Number	AR301
Depth Rating	6000m (19700ft) oil-filled, 1000m (3300ft) air-filled
Input Voltage	10 – 40VDC
Rated Torque	6.8N-m (5ft-lb)
Torque Limiting	8.1N-m (6ft-lb), default
No-load Current	60mA per axis
Rated Current	400mA per axis
Current Limiting	450mA per axis
Angle of Rotation	Unlimited (both axes)
Max. Speed	5 rpm (30°/sec)
Payload	10kg (22lbs)
Absolute Position Feedback	Resolution: 0.09° Accuracy: 0.2°
Gearbox Backlash	1.7° (100 arc-min) <i>*Backlash is measured by position encoder</i>
Control	Multi-drop RS232. Up to 250 soft-addresses. ASCII command set.
Housing Material	316 Stainless Steel (standard). Aluminum or Titanium optional.
Weight (316SS, oil-filled)	In Air: 2.7kg (6.0 lbs), In Seawater: 2.0kg (4.4 lbs)
Operating Temperature	-10°C – 40°C
Standard Connector Pinout (Impulse MCBH-4-MP)	1: GND 2: +V 3: RS232 RX (in from host) 4: RS232 TX (out to host)

