



arctic rays

HAMMERHEAD XT

Miniature Pan & Tilt

FEATURES

- ▶ Ultra-compact Pan & Tilt positioner
- ▶ Absolute position feedback
- ▶ Unlimited rotation in both axes
- ▶ Extra High Torque
- ▶ Variable-speed brushless motors
- ▶ Corrosion-resistant 316 Stainless Steel housing (Aluminum optional)
- ▶ Air-filled to 1000m (3300ft) or pressure-balanced, oil-filled to 6000m (19700ft)
- ▶ Multi-drop RS232 or RS485 (2-wire) control with soft-addressing allows up to 255 units on a single serial port (power permitting)
- ▶ ASCII protocol and Windows GUI
- ▶ User-settable soft-stops
- ▶ Wide input supply



PARAMETER	SPECIFICATION
Model Number	AR302
Depth Rating	1000m (3300ft) air-filled, 6000m (19700ft) oil-filled
Input Voltage	10 – 40VDC
Rated Torque (per axis @ 24V)	13.6 N-m (10 ft-lb)
Current Draw (per axis @ 24V)	No-Load: 120mA, Rated Load: 750mA, Limit: 850mA
Rotation Range (per axis)	Unlimited. Soft limits may be set by user commands.
Speed Range	Continuously variable 0-100%, in 1% increments.
No Load Speed (max)	6.3 rpm (38°/sec)
Payload	10kg (22 lbs)
Position Feedback (each axis)	Absolute. Resolution: 0.1° Accuracy: 0.2°
Gearbox Backlash	1.0° (60 arc-min) <i>*Backlash is measured and reported by encoders</i>
Control	Multi-drop RS232 or RS485 (2-wire). 254 soft-addresses.
Housing Material	316 Stainless Steel (standard). Anodized Aluminum optional.
Weight in Air (air-filled)	316 SS: 2.8kg (6.2 lbs); 6061AL: 1.6kg (3.5 lbs)
Weight in Water (air-filled)	316 SS: 2.0kg (4.4 lbs); 6061AL: 800g (1.8 lbs)
Operating Temperature	-10°C – 40°C
Connector Pinout (Subconn MCBH4M or MCPBOF4M standard)	1: GND 2: +10-40Vdc 3: RS232 RX(IN) OR RS485(A)- 4: RS232 TX(OUT) OR RS485(B)+ <i>*Additional pins on custom connectors will be left unused.</i>

