

Miniature, high-torque, continuous-rotation electric single axis Rotator unit with position feedback, for applications down to 6000m.



Features

Ultra-compact single-axis rotator

Absolute position feedback

Unlimited rotation

High torque

Variable-speed brushless motor

Corrosion-resistant 316 stainless steel housing (aluminum optional)

Air-filled to 1,000m (3,300ft) or pressure-balanced, oil-filled to 6,000m (20,000ft)

Multi-drop RS232 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

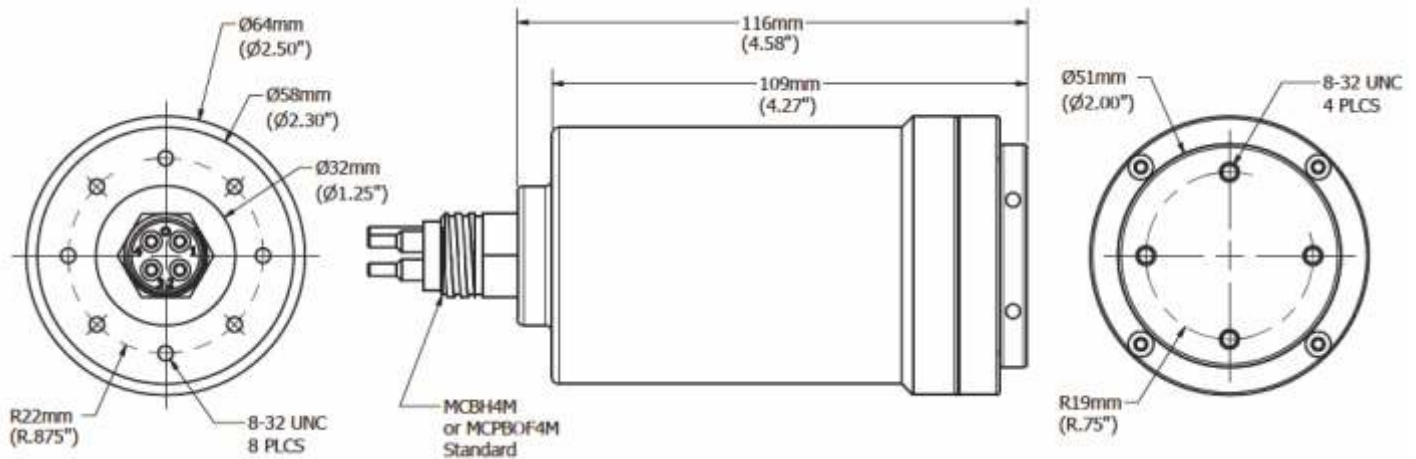
C-Tec **Technics Ltd.**

Unit 2 Silverburn Crescent, Aberdeen, AB23 8EW
Tel: +44 (0) 1224 608 000 E-Mail: sales@c-technics.com

www.c-technics.com

PARAMETER

Model Number	AR303
Depth Rating	1,000m (3,300ft) air-filled; 6,000m (19,700ft) oil-filled
Input Voltage	10–40VDC
Rated Torque (per axis @24V)	6.8N-m (5ft-lb)
Current Draw (per axis @24V)	No load: 120 mA, Rated load: 425mA; Limit: 450mA
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)	5.5rpm (33° per sec.)
Payload	10kg (22Lbs)
Position Feedback	Absolute. Resolution: 0.1°; Accuracy: 0.2°
Gearbox Backlash	1.7° (100 arc-min.) [†] Backlash is measured and reported by encoders
Control	Multidrop RS232 or RS485 (2-wire); 254 soft-addresses
Housing Material	316 stainless steel (standard); anodized aluminum optional
Weight in Air (air-filled)	316 SS: 1.3kg (2.9Lbs); 6061AL: 600g (1.3Lbs)
Weight in Water (air-filled)	316 SS: 800g (1.8Lbs); 6061AL: 100g 0.2Lbs)
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)+ *Additional pins on custom connectors will be left unused



C-Tecnicas Ltd.

Unit 2 Silverburn Crescent, Aberdeen, AB23 8EW
Tel: +44 (0) 1224 608 000 E-Mail: sales@c-tecnics.com

www.c-tecnics.com