AZIMUTH SIGHT FOR MD69 SERIES OF BEARING COMPASS REPEATERS
(THOMSON PATTERN)

MD69/AZI

- A precision azimuth reading device for taking accurate bearings of the sun and other celestial bodies and of landmarks
- Based upon the William Thomson (Lord Kelvin) pattern
- For use with the MARINE DATA MD69/x series of compass repeaters
- Maximum altitude: 60° above the horizon
- Minimum altitude: 10° below the horizon
- Equipped with a UV sun filter and a neutral density filter
- Milled prism adjustment thumbwheels
- Non-magnetic brass construction

The MD69/AZI Azimuth Sight from Marine Data.

MARINE DATA

...navigation with innovation

SPECIFICATIONS

Physical

- Type: Thomson pattern azimuth reading device, Group II
- Weight: 1.93kg
- Dimensions: 257mm overall diameter; 120mm overall height
- Mounting: Designed to be used with the MD69 series of compass repeaters having a card diameter = 195mm
- Reflector: Rotating 60° triangular prism, 30mm length
- Sun filters: 1x UV filter (Schott RG780, 0.80mm); 1x neutral density filter (Schott NG1, 1.00mm)
- Collimating lens: Diameter = 33mm; Focal length approx. 110mm
- Spirit level: Sensitive to tilt of <1°
- Shadow Pin: Not required
- Construction: Brass
- Finish: RAL9005 satin black paint

Electrical

- None

Operational

Maximum and minimum altitudes:

- **Method I:** For taking bearings of landmarks or objects with low luminosity (the arrow on prism adjustment thumbwheels = DOWN). A distant object is sighted directly by the eye with the compass card being simultaneously viewed indirectly through the prism. Maximum altitude 34° above the horizon; minimum altitude 10° below the horizon
- **Method II:** For taking bearings of the sun or other celestial objects (the arrow on prism adjustment thumbwheels = UP). The compass card is viewed directly through the collimating lens with a distant object being simultaneously viewed indirectly through the reflecting prism. Maximum altitude 60° above the horizon; minimum altitude 1.5° below the horizon

Environmental

- Operating temperature: -10°C to +70°C

Additional Information

- The MD69/AZI meets the Draft International Standard ISO/DIS 25862 for the testing and certification of Group II azimuth reading devices (SNAME ISO/DIS 25862, August 2008)
- Always use the sun filters when taking azimuth bearings of the sun; never attempt to take bearings of the sun with unprotected eyes
- This design of azimuth sight was originally developed by the British physicist Sir William Thomson (Lord Kelvin) (1824-1907) and introduced in the early 1880s

MD69/AZI

MARINE DATA

...navigation with innovation

MARINE DATA, Vittlefields Technology Centre, Forest Road, NEWPORT, Isle of Wight, PO30 4LY, United Kingdom
tel: +44 (0)1983 822180 fax: +44 (0)1983 822181 email: sales@marine-data.co.uk web: www.marine-data.co.uk