

Magnetic compass Azimut-KM05D



For all navigation areas



PURPOSE

Determination of the ship heading in all navigation areas, including the high latitude environment with horizontal component of magnetic field exceeding 3 mCTI that is up to 84° North for northern areas.

FEATURES:

- Built-in digital gyroscopic system of automatic heading correction providing stabilization of its readings in conditions of the ship roll/pitch/yaw, with data output to a digital repeater
- Equipping with compensators of semicircular, heeling, quadrantal, and latitudinal deviation
- Telemeter and digital transmission of magnetic heading
- Automatic introduction of correction of magnetic variation from GPS and GLONASS receivers
- Compass devices do not require shock-absorbing and special cooling

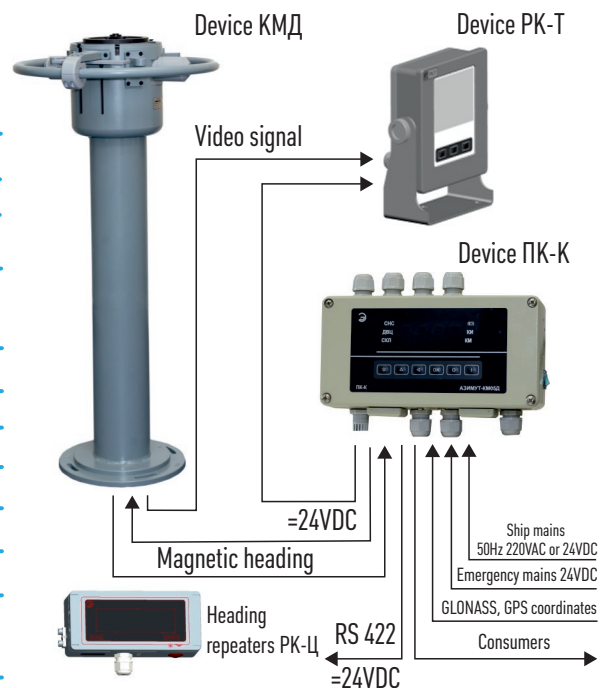
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SPECIFICATIONS

Card diameter	125mm
Scale division value	1°
Frictional error	$\pm(3/B1)$
Rocking angle	up to $\pm 45^\circ$
Heading indication error during operation in the range of latitudes from 85° N to 80° S:	
in-motion, with no roll/pitch:	
at $H \geq 7,96 \text{ A/m}$	within $\pm 1^\circ$
at $4,78 \text{ A/m} \leq H \leq 7,96 \text{ A/m}$	
at $2,39 \text{ A/m} \leq H \leq 4,78 \text{ A/m}$	within $\pm 3^\circ$
at $1,59 \text{ A/m} \leq H \leq 2,39 \text{ A/m}$	within $\pm 5^\circ$
(where H – horizontal component of geomagnetic field intensity)	within $\pm 2^\circ$
under roll/pitch in all directions with amplitude up to $\pm 22.5^\circ$ and period from 6 to 15 s	within $\pm 5^\circ$
Operating temperature (for device КМД)	- 40° to +55°C
Operating temperature (for other devices)	- 15° to +55°C
Interface – RS-422, RS-232, IEC61162-1 (NMEA 0183 version 2.2)	HDHDG, HDHDT
Power supply from the ship mains	50Hz 220 VAC or 24VDC
Power consumption	max 20 W

The device is delivered with an automatic correction system, if it is to be used in high latitudes.



The delivery set of Azimut-KM05D:

- magnetic compass on high binnacle,
- telemeter repeater for remote (TV) heading transmission,
- compass' combined device

At the customer's request the magnetic compass delivery set may be supplemented by:

- digital heading repeaters with a junction box,
- supply-line filter,
- SPTA sets (including a spare compass bowl).



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