Compass MAG1-C

Applications:

Completion of sensor packages with an easily to integrate compass in a separate pressure vessel; Applications that need information about their orientation relative to the magnetic field; magnetic field measurement in the µT range; detection of the earth magnetic field and its variations.

Working-principle:

Two-axial flux gate magnetometer with cardan suspension and silicon oil damping.

Simple handling:

Connections via under-water plug (micro-WetCON or custom specific);

Power supply 5 V (or 7 to 15 V) and two analogous outputs proportional to the horizontal components of the magnetic field for easy integration into data sampling packages.

Key data:

Depth rating:

Electronics case: CuZn35Ni2 (standard)

Ø 40 mm x 145 mm (without plug)

max. 2000 m

Mounting position: cylinder axis vertical,

plug above

Measuring range: \pm 65 μ T
Temperature coefficient: < 500 ppm/K
Axial ratio: \pm 1 \pm 5 %

Inclination: ± 30° to the vertical
Heading: 0 to 360° ± 1 % (calibr.)
Operating temperature: 0 to 70° (standard)

-25 to 85°C (industrial)-40 to 125°C (extended)

Power supply: $5 \text{ Vdc} \pm 5 \% < 35 \text{ mA}$

option 7 to 15 V/ < 40 mA

Outputs: 2 x 0 to +5 V (standard)

MAG1-C with under-water plug Micro-WetCon in mounting position



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