The Sperry Marine Magnetic Compass System

Sperry Marine manufactures its own magnetic compasses and binnacles. The wide range of equipment offered by the comprehensive Sperry Marine Magnetic Compass System program includes aluminium alloy binnacles, the legendary Jupiter magnetic flat glass compass, a flux-gate pick-off with an integrated sine/cosine interface, by-pass arrangements, azimuth devices, electronic compasses and magnetic compass autopilots (TMC). All of these products are manufactured to Sperry Marine’s well-known high standards.

Cover photo of „Altonia“ by courtesy of Peter Döble Schiffabrits-KG
The JUPITER Flat Glass Magnetic Compass

Bearing compass, steering compass, reflector compass and overhead compass for large vessels. A “class A” compass with a card diameter of 180 mm. It meets ISO 449 standards and is type approved in accordance with the EC Council Directive 96/98/EC. Further type approvals for many other countries are available on request. The JUPITER compass may be installed in all NAVIPOL binnacles and its accuracy is better than 0.5°. Weight: 8.7 kg.

Options include: flux-gate pick-off, shadow pin, wooden transport box, replacement parts kit, azimuth device.

The Flux Gate with the Integrated Sine / Cosine Interface

The Sperry Marine flux gate is an in-house development which combines modern electronic technology with SMD manufacturing techniques to produce a very compact unit which also incorporates a fully integrated sine/cosine interface.

Technical Data

- Power requirements: 12 V ± 20%
- Power rating: 40 mA
- Output voltage: ± 3.75 VDC (variable ± 1.5 V to ± 4 V)
- Two channels sine and cosine and a reference output

An adapter kit is available for attachment to non Sperry Marine compasses.

Type approved in accordance with the EC Council Directive 96/98/EC in combination with a JUPITER magnetic compass.

An Electronic Compass with an automatic total compensation feature is also available from Sperry Marine. Heading output format is NMEA 0183 to 0.1° resolution. Accuracy 0.2° RMS. Dimensions: body 120 mm Ø; height 104 mm; mounting base 152 mm Ø.

Universal Digital Repeater

The Universal Digital Repeater in combination with an autopilot indicates the corrected magnetic compass heading through the RS 422 magnetic compass heading output from the autopilot. The Universal Digital Repeater is available as a console version and in a watertight housing with bracket attachment. Type approved in accordance with the EC Council Directive 96/98/EC.
Back-Up Heading Function

A Jupiter magnetic compass with a flux-gate pick-off, combined with a NAVITWIN III Compass Monitor, provides an ideal independent back-up heading source in gyrocompass systems for distribution to autopilots, repeaters, radars and other peripheral appliances.

Single Heading Reference Source (TMC)

Configured with a NAVITWIN III Compass Monitor, a Jupiter magnetic compass with a flux-gate pick-off will provide an accurate heading source for autopilots and repeaters for the smaller vessel.