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ALPHATRONAlphatron Marine

The human touch in technology

Maintenance free

Gyro compass ALPHAMINICOURSE



ALPHAMINICOURSE GYRO COMPASS

SMALL IN SIZE - GREAT IN PERFORMANCE

Over 700 Alphaminicourse gyro's are in operation since its introduction

APPLICATION

The Alphaminicourse is designed to meet the needs of the marine market. Highly accurate performance derived from the aerospace industry, combined with a rugged construction in order to cope with the most severe circumstances at sea.

The Alphaminicourse provides the following data:

- Heading against the geographical meridian at the vessel speed up to 90 knots, latitude up to 80 degrees and roll and pitch angles up to maximum 50 degrees
- Rate of turn indicator
- Information on operation mode and failure indication



DRY GYRO ELEMENT

The high precision dynamically tuned gyroscope and gimbal suspension. Derived from aerospace technology, now available to the marine industry.

- No liquid used
- No heating or cooling
- No annual service

Complies with EU rules for ecological safety.



STEERING REPEATER WITH VERNIER

> Alphacourse G **NMEA Type**



ALSO AVAILABLE

- NMEA Booster
- Stepper Booster
- Gyro interswitch
- Horizontal stand
- Tilting bracket
- Rate of turn indicator



Maintenance free

FEATURES

- Fast settling time < 45 minutes
- Low power consumption
- Small size 288x240x329 mm
- World wide support
- Wheelmark MED approved
- Suitable for all kinds of vessels
- Automatic start up and alignment
- Automatic speed and latitude correction
- High follow up rate > 200° sec
- Light weight 12.5 kg
- Shock resistant up to 5G
- One unit design
- Low cost of ownership
- Complies with high speed HSC code
- Built-in test function
- Quadriple gyro configuration
- Full range of serial repeaters available

CONFIGURATION

The Alphaminicourse has a monoblock design, the compass outer casing has a window on top. For easy compass reading and if required, the control unit can be mounted at maximum 100 meters from the main gyro.



- Analogue gyro course
- Digital gyro course
- Rate of turn trend
- Audible stepper clicks



Dynamic accuracy Settle point error **MULTI-**

FUNCTIONAL

DIGITAL GYRO

REPEATER

<+/- 0,2° sec >200° sec Follow up speed < 45 minutes within 0.7° Settling time Operation temperature from -15°C to +55°C from -60° C to $+80^{\circ}$ C Storage temperature up to 5G Assigned service life 40.000 hours

Inputs Latitude

Speed

TECHNICAL DATA

RS232 / RS422 from GPS Pulse or contact at 100. 200 and 400 per nm from log

<+/- 0,6° sec

NMEA 0183 via RS232 / RS422 from log

NMEA 0183 via

24 (18-36) V DC Startup 50W / Operation 25W Power consumption

Assigned service life 40.000 hours

Outputs Step

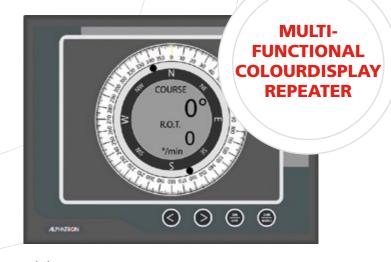
Input voltage

1x (5V TTL), 6 steps per degree Serial data 12x RS422, NMEA 0183 4x RS232, NMEA 0183

1x ROT

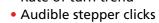
+/- 200° sec (+/- 10 V)

The gyro compass Alphaminicourse complies with requirements (19), MEC 945-96, ISO 8728-1987 of IMO A.424(XI), A.821



Alphacourse MFC

- NMEA Type
- Digital gyro course
- Rate of turn trend





056.2°

00

Alphacourse MFD

Digital gyro course

Rate of turn trend

Audible stepper clicks

NMEA Type