



ALPHATRON
Alphatron Marine

The human touch in technology

*Maintenance free
Gyro compass AlphaMiniCourse*

ALPHAMINICOURSE GYRO COMPASS

SMALL IN SIZE - GREAT IN PERFORMANCE

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.

BEARING REPEATER WITH VERNIER ON BRACKET

AlphaCourse B
NMEA Type

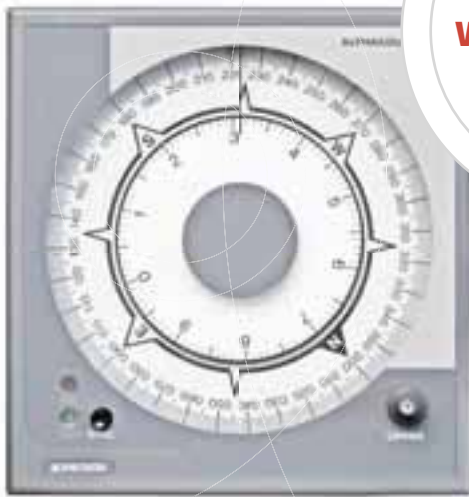


FEATURES

- Maintenance free
- 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
- Build-in test function
- Dual or triple gyro configuration
- Full range of serial repeaters available

STEERING REPEATER WITH VERNIER

AlphaCourse G
NMEA Type



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.



ALSO AVAILABLE

- NMEA Booster
- Stepper Booster
- Dual or triple interswitch
- Horizontal stand
- Tilting bracket
- Course recorder
- Rate of turn indicator



MULTI-FUNCTIONAL DIGITAL GYRO REPEATER



- AlphaCourse LM
- NMEA Type
 - Analogue gyro course
 - Tape repeater function

ANALOGUE/DIGITAL MULTIFUNCTIONAL GYRO REPEATER



- AlphaCourse MF
- NMEA Type
 - Analogue gyro course
 - Digital gyro course
 - Rate of turn trend
 - Audible stepper clicks

TECHNICAL DATA

Settling point error	<+/- 0,2° sec
Dynamic accuracy	<+/- 0,6° sec
Settle point error	<+/- 0,2° sec
Follow up speed	>200° sec
Settling time	< 45 minutes within 0,7°
Operation temperature	from -15°C to +55°C
Storage temperature	from -60°C to +80°C
Shock	up to 5G

- **Inputs**
 - Latitude NMEA 0183 via RS232 / RS422 from GPS
 - Speed Pulse or contact at 100, 200 and 400 per nm from log
 - NMEA 0183 via RS232 / RS422 from log
 - Input voltage 24 (18-36) V DC
 - Power consumption Startup 50W / Operation 25W
 - Assigned service life 45.000 hours

- **Outputs**
 - Step 1x (5V TTL), 6 steps per degree
 - Resolver 1x 3V 400Hz (option)
 - Serial data 4x RS422, NMEA 0183
 - 1x RS232, NMEA 0183
 - 1x ROT
 - +/- 200° sec (+/- 10 V)
 - Status / alarm 5V TTL power fail / gyro fail

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

MULTI-FUNCTIONAL COLOURDISPLAY REPEATER



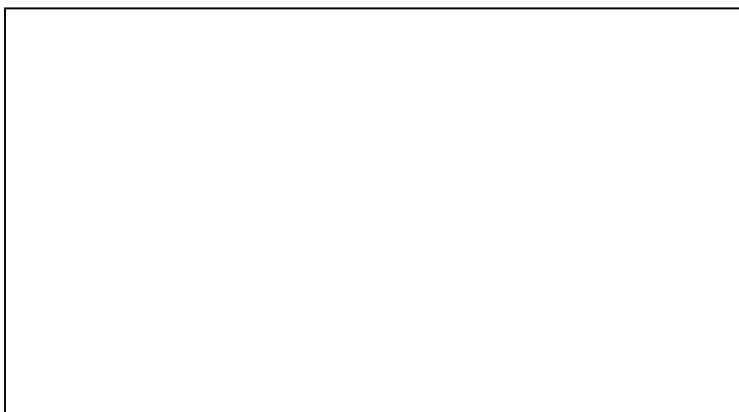
- AlphaCourse MFC
- NMEA Type
 - Digital gyro course
 - Rate of turn trend
 - Audible stepper clicks
 - Tape repeater

WARRANTY

- Two years warranty on the gyro sensitive element on an exchange basis after installation
- One year warranty after installation on electronics and accessories



Your Authorised Dealer:



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