

SIGMA-300

Rate Of Turn Indicator set



SIGMA-300

The SIGMA-300 is a Rate Of Turn indicator set. The display unit can be used as stand alone unit or in combination with the Radio Zeeland DMP autopilots. In the case of stand alone operation the SIGMA-300 display unit is supplied with the gyro P-300 (former RZ630). The SIGMA-300's sensor is unique in its kind. With the use of linear critical damping it is stable at all times. The display unit is protected against over voltage and very suitable for inland shipping and large push boats.

SIGMA:

The SIGMA line is a complete modular range of reliable equipment for inland shipping and inland fishery. Unique is the combination of digital technology and an analog readout.

Autopilot:

The SIGMA-300 is a Rate of Turn Indicator set, that can be used in combination with the SIGMA-550 autopilot. The display unit can be used as repeater indicator allowing for repeaters in several locations. The SIGMA-300 can also be used as stand alone unit.

Sensors:

The SIGMA-300 set is supplied with a P-300 Rate Of Turn sensor. This sensor has proven its value throughout years of reliable service.

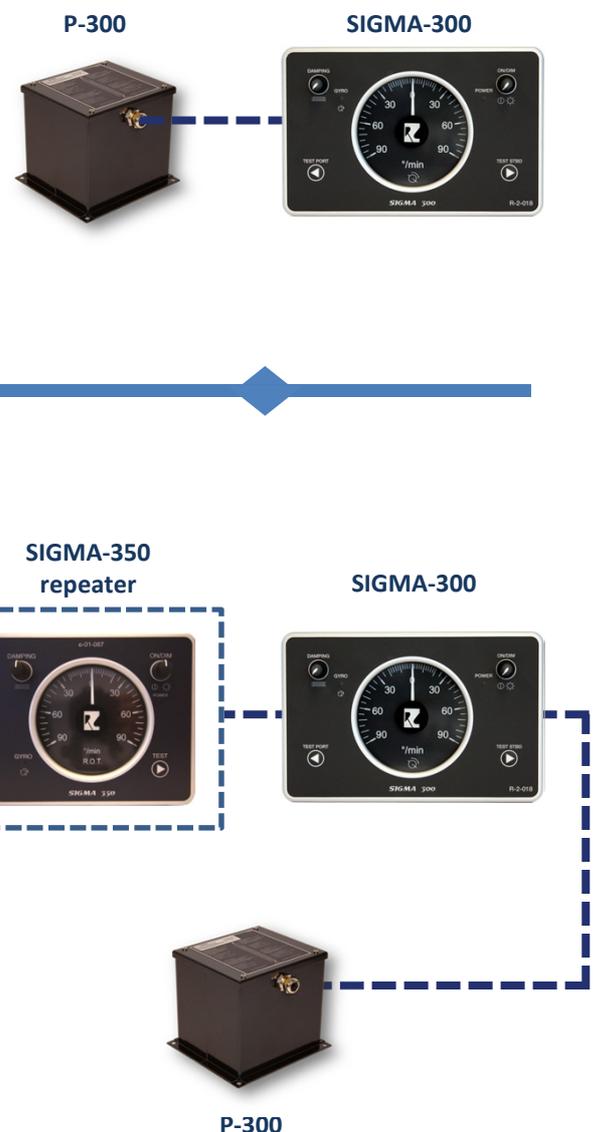
Dimming:

The SIGMA-300 display unit is fitted with a dimming system. This unit can be dimmed synchronized with the rest of the Radio Zeeland DMP system. Even when used as a repeater, the dimming of the main unit and the repeater can be synchronized.

Colored lighting:

The indicator of the SIGMA-300 display unit is illuminated with LED- backlighting. The color of the lighting can be set to three different colors, Red, Yellow, or Blue, creating a night view adjustable to personal preferences.

The SIGMA-300 is approved under: R-2-018



RADIO ZEELAND DMP
www.radiozeeland.com

Technical specifications

Display unit housing specifications

Housing	Clear anodized aluminum
Size	236 x 154 x 80 mm
Weight	Net weight 1,35kg
Protection	IP-50
Temperature	0 to + 55°C,
Humidity	0 to 90% non-condensing

Electrical specifications

Main power supply	20 – 36VDC fused @900mA self recovering
Backup power supply	20 – 36VDC fused @900mA self recovering
Amperage	< 1A (without repeaters)
Power consumption	< 1,5 A

Optical specifications

Indicator scale	90° - 0° - 90° or 300° - 0° - 300°
Dimming range	5 - 100%
Illumination color	Red / Blue / Yellow

Outputs

- External dimmer 15VDC PWM with a maximum of 150mA
- Repeater -1 - 0 - 1mA
- NMEA out IEC 61162 (ROT)

Inputs

- Extern on / off 15VDC
- NMEA in IEC 61162 (ROT)

P-300 Sensor specifications

- Supply voltage: 20-36V DC.
- Current consumption: < 1A (< 2A during startup of the sensor)
- Measuring range 90°/min (optionally 300°/min)
- Resolution: 0,1°/min by 90°/min. 0,5°/min by 300°/min.
- Accuracy: <5% of maximum scale.
- Start-up time maximum 60 sec.
- NMEA ROT output.

Declaration of conformity

EN 60945 (IEC 60945: 2002, including corrigendum 1:2008)

Chapters 9, 10, 11 and 12

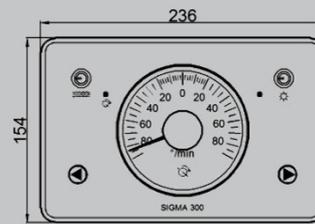
Minimum requirements for rate of turn systems as stated in directive 2006/87/EC.

The SIGMA-300 is a Class B product (weather protected)

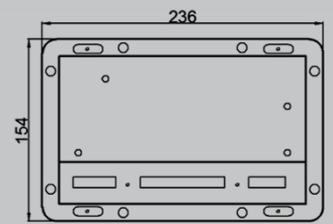
Scope of supply

- The SIGMA-300 Manual
- Display unit SIGMA-300
- P-300 Smart Gyro Sensor
- P-300 Manual
- Assembly set

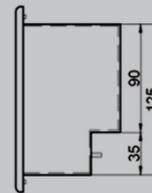
Dimensions in mm:



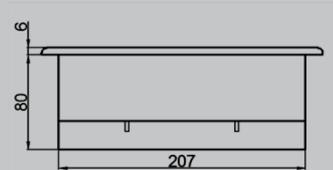
FRONT



BACK

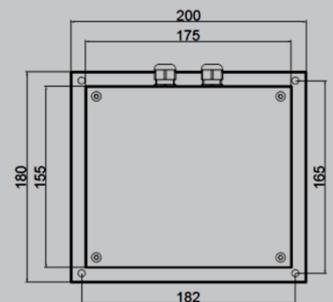
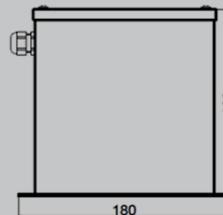


SIDE



BOTTOM

P-300 Sensor



Dealer:



Product is subject to change without notice.