

SIGMA-100

Rudder angle indicator set



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.

Rudder Angle Indicator:

The SIGMA-100 is a rudder angle indicator set, that can be used as stand alone unit, in combination with the Radio Zeeland DMP autopilots, or the display unit can be used as repeater indicator allowing repeaters in several locations. With a lifetime of 20 years or more in some cases this system is undoubtedly the most reliable on the market.

Sensors:

The SIGMA-100 operates with a S-100 smart rudder angle sensor. The S-100 is able to indicate all rudder angles without the use of sliding contacts. Because of the contactless rudder angle indication, the S-100 has a long and reliable lifespan.

Dimming:

The SIGMA-100 display unit is fitted with a dimming system. When used as a repeater, the dimming of the main unit and the repeater can be synchronized.

SIGMA-100

The SIGMA-100 rudder angle indicator set is an extremely reliable rudder angle indicator, that has proven its value throughout years of service. The SIGMA-100 display unit can be set to personal preferences and can be used as a stand alone device, in combination with the autopilot and as a repeater.

Colored lighting:

The scale of the SIGMA-100 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.



S-100 Smart RAI sensor



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 1,30kg
Protection	IP-50
Temperature	0 to + 55°C,
Humidity	0 to 90% non-condensing

Electrical specifications

Main power supply	18 – 36VDC fused @900mA self recovering
Backup power supply	18 – 36VDC fused @900mA self recovering
Amperage	< 1A (without repeaters)

Optical specifications

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

Outputs

- External dimmer 15VDC PWM with a maximum of 150mA
- 3x SIGMA-100 or SIGMA-150, or repeater -1 - 0 - 1mA
- Extern on / off 15VDC

Inputs

P-100 or RZ610 rudder angle transmitter

S-100 Sensor specifications

- Supply voltage: 12-36V DC.
- Current consumption: less than 200mA.
- Non-contact magnetic recording angle.
- Resolution: 0,5°.
- Zero-point adjustable over the entire field line.
- 360° mechanical and electrical rotation.
- NMEA RSA output signal (not galvanically separated)
- -10V to +10V analog output, galvanically separated.
- DIP switch selectable port feedback unit or starboard feedback unit.

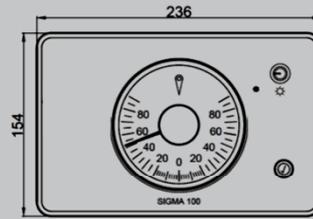
Declaration of conformity

EN 60945 (IEC 945 Third edition: 1996-11) Chapters 9,10,11 and 12

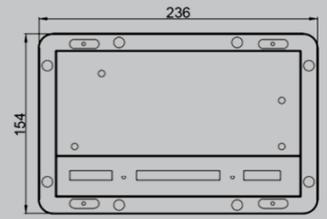
Scope of supply

- The SIGMA-100 Manual
- Display unit SIGMA-100
- The S-100 Rudder Angle sensor
- The S-100 Manual
- Assembly set

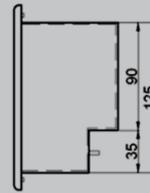
Dimensions in mm:



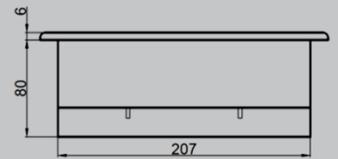
FRONT



BACK

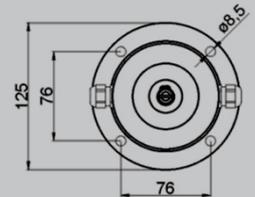
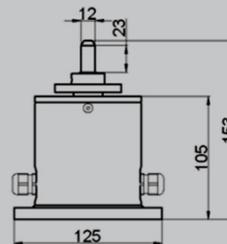


SIDE



BOTTOM

S-100 Sensor



Dealer:



Product is subject to change without notice.