TITAN-100

Rudder Angle Indicator set

TITAN-100
De TITAN-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.

TITAN:
The Radio Zeeland DMP TITAN line is a completely new navigation line which combines proven techniques with the modern day technology. The TITAN line is based upon its predecessors, the Falcon and Sigma line and combines the analogue and digital techniques into an extremely versatile navigation line. The new TITAN line is suitable for the new build as well as the replacement market.

Rudder Angle Indicator:
The TITAN-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.

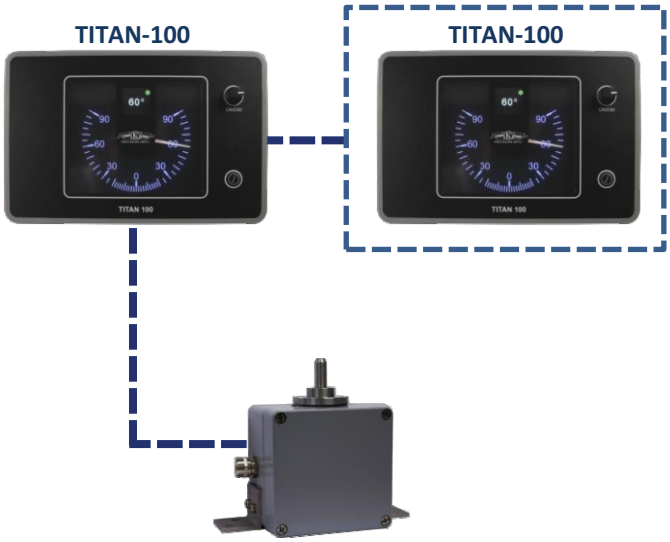
OLED display:
The small OLED display in the middle of the analogue gauge provides a digital read out next to the analogue gauge. This ensures a quick and orderly overview of the provided data. General information, feedback and functions are also indicated on the OLED display.

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

Dimming:
The TITAN-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.

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.

Two-wire and Ethernet:
Because the TITAN line can be connected to a network based and wired system, it has the unique possibility to use analogue and digital devices next to each other. This possibility has never been seen before in this market, providing a window of opportunities and loads of flexibility with this new navigation line.



P-100 Smart RAI sensor

Technical specifications

Display unit housing specifications

Housing	Powder coated aluminum
Size	236 x 154 x 80 mm
Weight	Net weight 1,30kg
Protection	IP-50
Temprature	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 TITAN-100 or TITAN-150, or repeater -1 - 0 - 1mA
- Extern on / off 15VDC
- 1x Ethernet port

Inputs

- P-100 or RZ610 rudder angle transmitter
- 1x Ethernet port

P-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

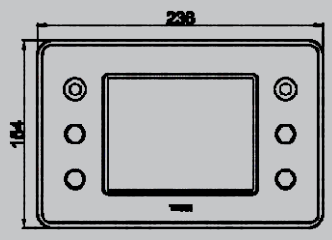
EN 60945 (IEC 945 Third edition: 1996-11) Chapters 9,10,11 and 12

Scope of supply

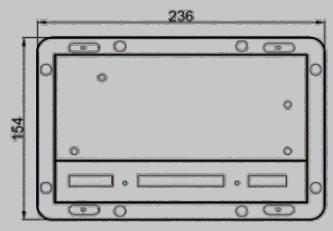
- The TITAN-100 Manual
- Display unit TITAN-100
- The P-100 Rudder Angle sensor
- The P-100 Manual
- Assembly set

Product is subject to change without notice.

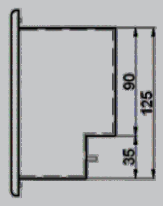
Dimensions in mm:



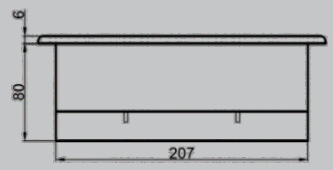
FRONT



BACK

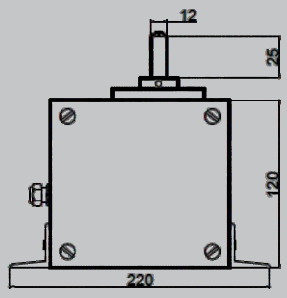


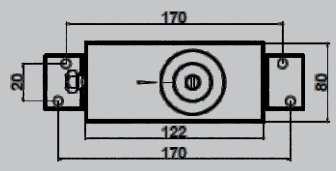
SIDE



BOTTOM

P-100 Sensor





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