

# TITAN-120

Echo sounder indicator set



## 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.

## Sensors:

The TITAN-120 system operates with a P-120 smart depth sensor interface box and a depth transducer. With use of a built in filter, the P-120 filters out the disruptions of air bubbles, making it possible to indicate with an analogue gauge.

## Dimming:

The TITAN-120 display unit can be dimmed synchronized with the rest of the Radio Zeeland DMP display system.

## Colored lighting:

The scale of the TITAN-120 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.

## Shallow waters and wake:

The TITAN-120 is specially designed to operate in shallow waters. The transducer of the TITAN-120 is accurate up to 0,3m under the hull, where other depth sounders have inaccurate measurements up to over one meter below the hull. The TITAN-120 is accurate even in the wake of another vessel.

## Two-wire and Ethernet:

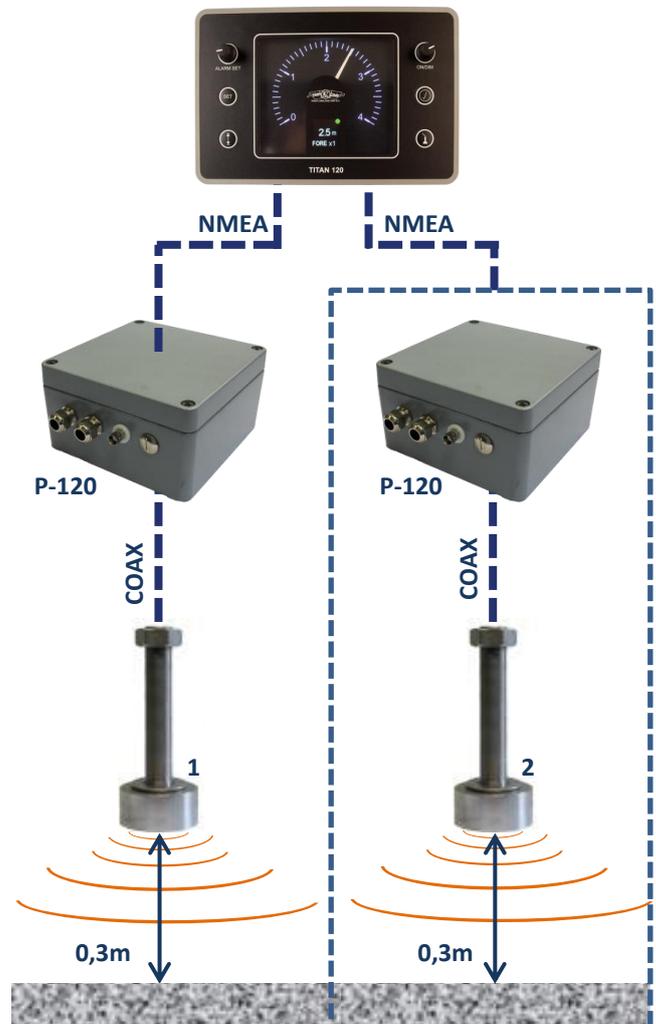
Because the TITAN line can be connected to a network based and wired system, it has the unique possibility to use analogue and digital devices next to each other.

## TITAN- 120

The TITAN-120 is an echo sounder set and operates with the junction box P-120 and a transducer. The echo sounder can be set to 0-4 and 0-40 meters. Between 0 and 4 meters an alarm can be set to warn the operator if the depth reaches the preset minimum. The TITAN-120 Echo sounder is specially designed to operate in shallow waters, making it the ideal depth sounder for the commercial inland shipping industry. The information is displayed on an analogue and a digital indicator.

## 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.



# 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
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	0,3 – 4m or 3 – 40m
Dimming range	5 – 100%
Illumination color	Red / Blue / Yellow
Depth alarm	0 – 4m

## In/Outputs

- External dimmer 15VDC PWM with a maximum of 150mA
- Repeater 0 - 1mA
- NMEA out ICE 61161 (DBT, DPT)
- 1x Ethernet port

## Other

Over/voltage protection: Yes

## P-120 Sensor specifications

- Supply voltage: 18-36V DC.
- Current consumption: less than 1A.
- The measuring range2 is 0,3m - 40m.

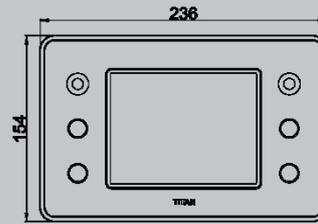
## Declaration of conformity

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

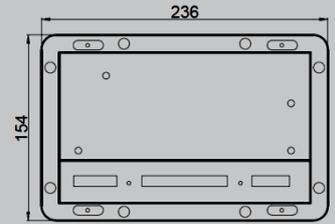
## Scope of supply

- The TITAN-120 Manual
- Display unit TITAN-120
- The P-120 smart depth sensor interface box
- P-120 Manual
- Transducer 200kHz for depth
- Assembly set

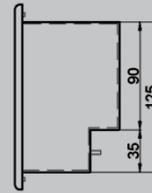
## Dimensions in mm:



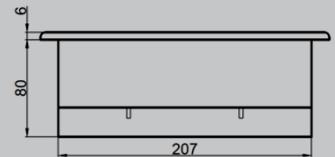
FRONT



BACK

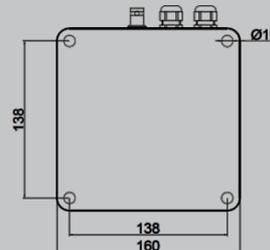


SIDE



BOTTOM

## P-120 Sensor



## Transducer

