THOR-120

Echo Sounder

The THOR line is a complete line of navigation products in which proven techniques are combined with present-day technology.

RADIO HOLLAND

The THOR line is based on its predecessors – the Sigma, Titan and Falcon lines – and combines analogue and digital technologies in a versatile line of navigation products. The THOR line is suitable for both new construction and the replacement market.

The THOR-120 is an echo sounder, connected via a P-120 sensor interface to 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 when the preset minimum depth is reached. The THOR-120 echo sounder is specifically designed for use in shallow water, making it the ideal depth gauge for commercial inland shipping. The information is indicated on an analog indicator and a digital indicator.

LED display

The small LED display in the middle below the analog meter provides a digital reading next to the analog meter for a quick and clear overview of the data provided. General information, feedback and functions are also indicated on the LED display.

Sensors

The THOR-120 system works with a P-120 sensor interface box and a transducer. The P-120 filters disruptions caused by air bubbles, making it possible to indicate depth with an analog meter.

Dimming

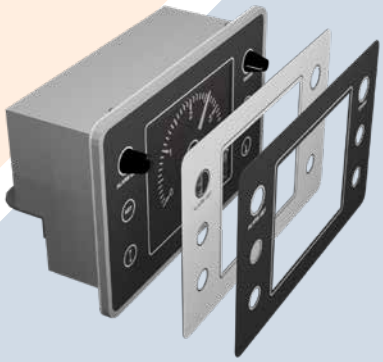
The display unit comes with a dimmer. When the repeater is used, dimming the main device and the repeater can be synchronized.

Colored scale illumination

The scale of the display unit is illuminated with LED background lighting. The lighting can be set to three different colors: red, yellow or blue, so that night vision can be adjusted to personal preferences.

Look and feel

The THOR instruments have a slightly lower top, so that an adjustable front can be added. These fronts are available in any color and lay-out you want. The fronts are available in Gorilla Glass or foil.



Shallow water and wake

The THOR-120 is specifically designed for use in shallow water. The transducer of the THOR-120 is accurate to 0.3m below the hull, where other depth gauges offer inaccurate measurements to more than one meter below the hull. The THOR-120 is even accurate in the wake of another vessel.

Two-wire and Ethernet

As the THOR line can be connected to a network and to a cabled two-wire system, it offers the unique possibility of using analog and digital devices side by side. With this possibility the navigation line offers many possibilities and much flexibility.

Technical specifications

Display unit

Housing	Powder-coated aluminum
Dimensions	236 x 154 x 80mm
Weight	Net weight 1.30kg
Security	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

Scale	0.3-4m or 3-40m
Dimmer range	5-100%
Colors lighting	red / blue / yellow
Depth alarm	0-4m

Inputs/Outputs

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

Other

- Surge protection

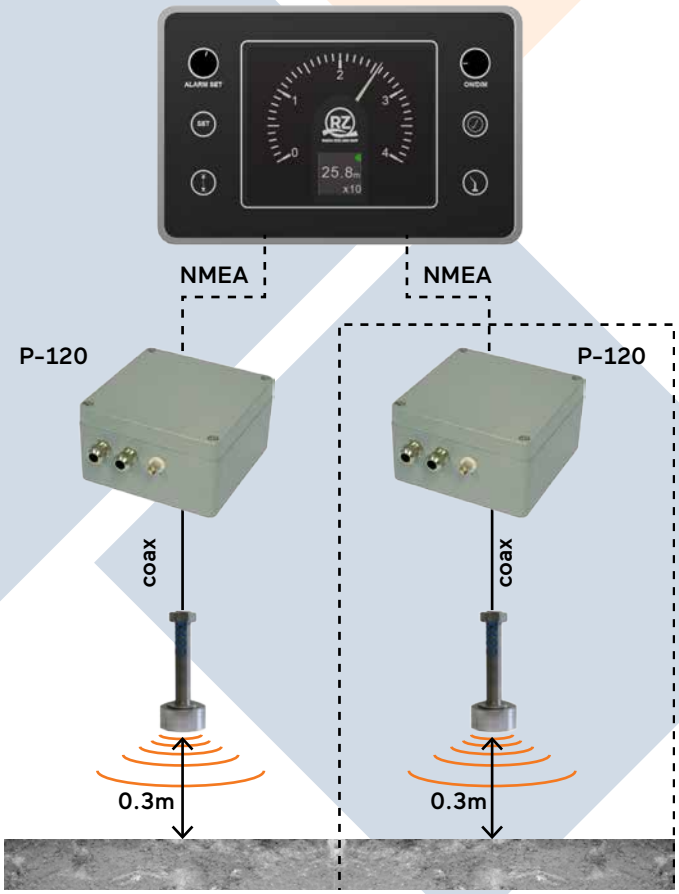
P-120 Sensor Specifications

Voltage	18-36VDC
Power consumption	less than 1A
Measuring range	0.3-40m

Declaration of conformity

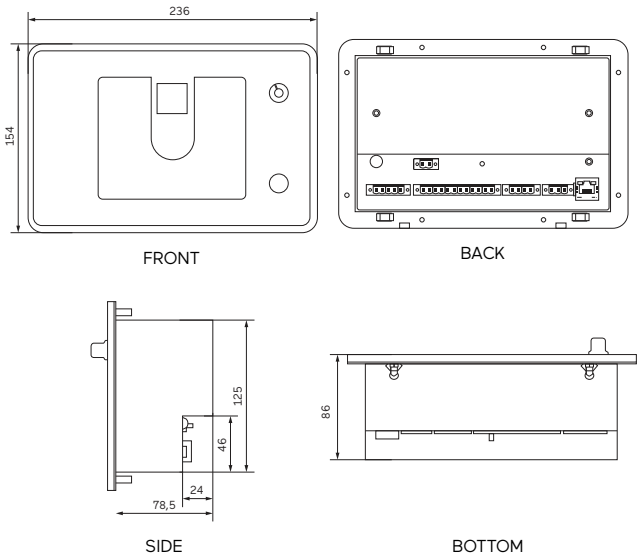
EN 60945 (IEC 945, third edition: 1996-11) Chapters 9, 10, 11 and 12.

System diagram

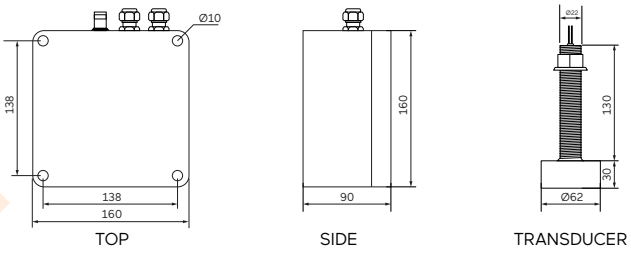


Dimentional Diagrams

Display unit



P-120 sensor and transducer

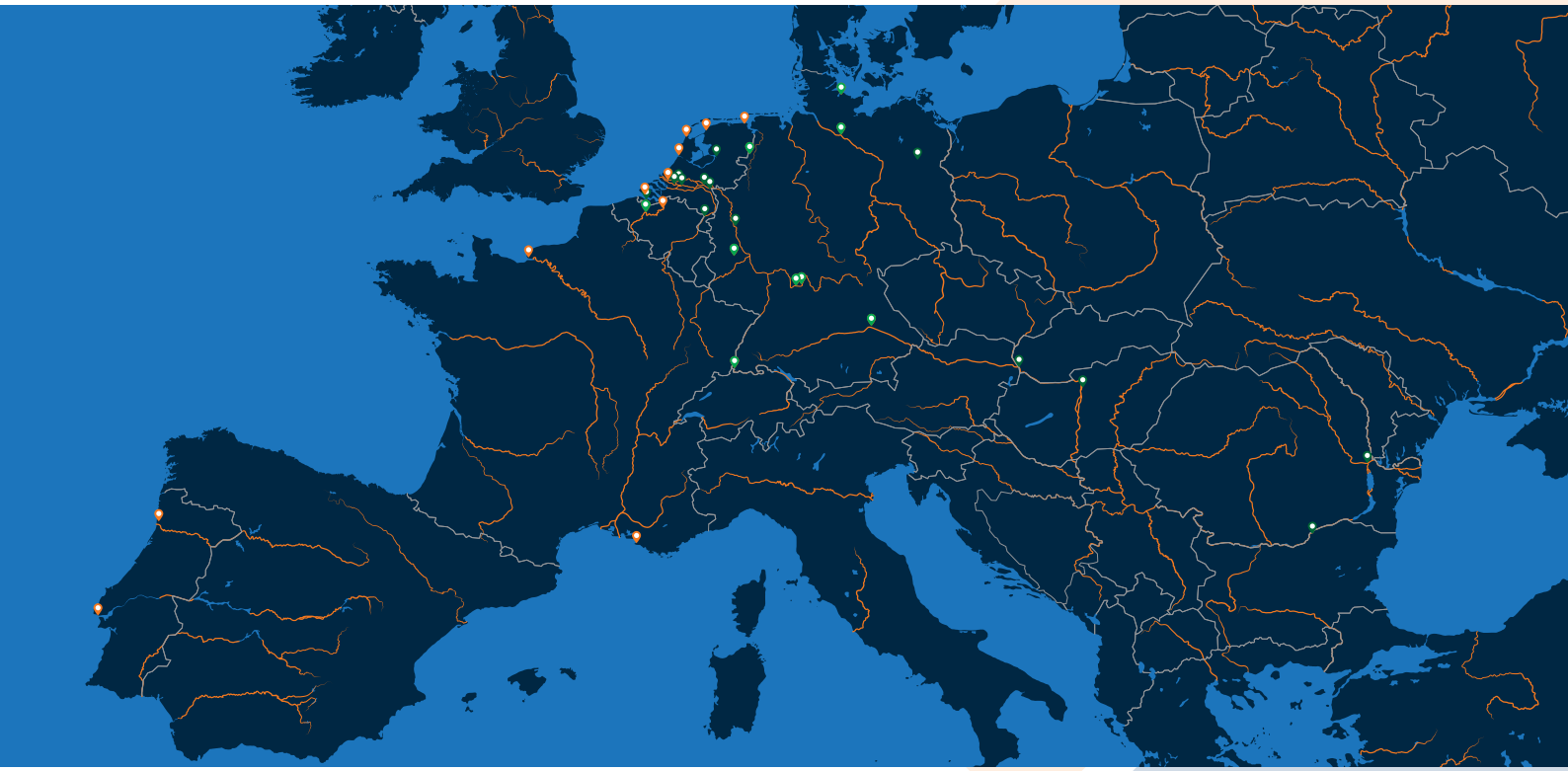


Delivery package

- THOR-120 Manual
- Display unit THOR-120
- Assembly set

DEALER NETWORK

Radio Holland offers inland shipping entrepreneurs and shipping companies quick and efficient support, service and maintenance. Wherever you are, a professional technical team is at your service 24/7 to solve any problems fast. Besides, our extensive dealer network is always at your disposal, wherever you are, from any berth in the Netherlands to all European inland waterways.



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ALWAYS THERE. EVERYWHERE.

THOR-120UK V1 (APR2022)