



**Implementing Regulation  
2018/773/EU**

**Signaling Technology**

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**Longer. Higher. Bigger.  
We make them safer.**

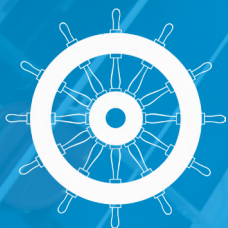
MED-certified signaling devices for fire alarm systems  
in the marine industry.



## MED-certified signaling devices

# More reliable alarm signaling on board.

As a leading supplier of equipment to the marine industry, we enhance safety in fire alarm systems. With MED-certified signaling devices featuring advanced technology and outstanding reliability, as reflected by our 10-year product warranty.



*All signaling devices shown here are MED and DNV-GL certified.*



## Conforming to standards is safe.

The European Marine Equipment Directive (MED) mandates the use of MED-certified signaling devices in fire alarm systems on board of ships. This applies to all EU-flagged ships and ships intended to fly the flag of an EU country.

Shipping companies, service providers and suppliers of fire alarm systems rely on our MED-certified products. They enable standard-compliant and reliable fire alarm signaling on all ships, from the bridge through the gangways and cabins to the machine rooms and holds.

The specific suitability of our signaling devices for use under the demanding conditions of the maritime sector is additionally confirmed by DNV-GL approval.

## Higher efficacy is safer.

Our audible signaling devices have optimised acoustic emission to ensure the greatest possible propagation of acoustic energy. The electromagnetic acoustic transducers also provide extremely high acoustic efficacy, enabling high penetration of acoustic obstacles and reducing the required number of signaling devices.

## Smarter is safer.

Clever details simplify installation and shorten installation times for our devices. For instance, all housing parts are shape coded to prevent incorrect assembly. The high quality of our products is characterised by the use of mechanically keyed connectors and factory wiring of our visual and audible signaling devices.

A large selection of more than 70 warning tones also facilitates the deployment of our signaling devices in all areas of the marine industry.



## MED-certified sounder



### PA 1

- Sound pressure level up to 105 dB(A)
- Protection rating IP 66
- Rated voltage 24 V / 48 V DC



### PA 5

- Sound pressure level up to 108 dB(A)
- Protection rating IP 66
- Rated voltage 24 V / 48 V DC



### PA 10

- Sound pressure level up to 116 dB(A)
- Protection rating IP 66
- Rated voltage 110–240 V AC, 24 V / 48 V DC



### PA 20

- Sound pressure level up to 124 dB(A)
- Protection rating IP 66
- Rated voltage 110–240 V AC, 24 V / 48 V DC

## MED-certified visual and audible signaling devices



### PA X 1-05

- Sound pressure level up to 105 dB(A)
- Flash energy 5 Joules
- Protection rating IP 66
- Nennspannung 24 V / 48 V DC



### PA X 5-05 / 5-10

- Sound pressure level up to 108 dB(A)
- Flash energy 5 Joules / 10 Joules
- Protection rating IP 66
- Rated voltage 24 V / 48 V DC



### PA X 10-10 / 10-15

- Sound pressure level up to 116 dB(A)
- Flash energy 10 Joules / 15 Joules
- Protection rating IP 66
- Rated voltage 115 V / 230 V AC, 24 V / 48 V DC



### PA X 20-10 / 20-15

- Sound pressure level up to 124 dB(A)
- Flash energy 10 Joules / 15 Joules
- Protection rating IP 66
- Rated voltage 115 V / 230 V AC, 24 V / 48 V DC

## The benefits at a glance:

- 10 year warranty on all illustrated devices.
- Constantly up-to-date approvals to ensure extremely high reliability.
- Easy and reliable installation on site, which can also be performed by the ship's crew if necessary.
- High availability and delivery performance.

Contact us directly at  
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For detailed information on MED certification and our products, visit  
**[www.pfannenberg.com/med](http://www.pfannenberg.com/med)**

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