

Introduction - Installation & Commissioning

Prerequisites

To avoid delays, it is of outmost importance that our Team leader is assisted by the C/E, or a person pointed out by the C/E, in retrieving the necessary work permits/approvals in due time, throughout the entire duration of the project, concerning:

- Cable penetrations (E.g. if restrictions on where, when and/or how to open/close them, apply).
- Hot work (E.g. if restrictions on where, when and/or how to perform it, apply).

If required, the C/E must obtain an approval from the Head Office in advance, in compliance with internal policies, concerning:

Project activities

Positioning of equipment (Approx. 2 days)

- xx no. of LAS-10 Detectors, positioned in engine spaces acc. to smoke test survey results on vessel class, incl. a final follow-up test.
- 1 pc. of CU, Control Unit, for every 12 pcs. of LAS-10 Detectors, positioned in a predetermined high traffic area.
- 1 pc. of PSU, Power Supply Unit.
- 1 pc. of Monitor, positioned in ECR, Engine Control Room.
- 1 pc. of USB Interface, for each CU, positioned in ECR.

Cabling (Approx. 7 days)

•	1 pc. of Detector cable for each LAS-10 Detector (2x0,75 + 2x0,5 mm ²)	Ø 8,5 mm.
•	1 pc. of 230V Power cable for each PSU (3G2,5mm ²).	Ø 9,7 mm.
•	1 pc. of 48V Power cable for each CU (2x4mm²).	Ø 12,5 mm.
•	1 pc. of Data cable from each CU ($2x0,75 + 2x0,5 \text{ mm}^2$).	Ø 8,5 mm.
•	1 common Alarm- and fault cable from CU's (2x0,75 + 2x0,5 mm ²).	Ø 8,5 mm.

Welding (Approx. 1 day)

- 1 bracket for each LAS-10 Detector.
- 1 bracket for each CU.
- 1 bracket for PSU.

Equipment assembly (Approx. 2 days)

- 1 pc. of Detector plug for each LAS-10 Detector.
- Connection of cables CU, PSU, Monitor.

Commissioning, test and training (Approx. 2 days)

- System commissioning.
- Test
- · Crew training.