



Technical manual SF05 - SF12

Jeffere



Lamers System Care B.V.

This document contains relevant information regarding the technical specifications of the Ultrasonic Antifouling System SF12.

In case of any question or doubt, please do not hesitate to contact Lamers System Care B.V. for further support:

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Technical manual



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Safety Instructions

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We recommend that the electrical installation of this system is carried out by a qualified marine electrician.

When mounting the control unit, please find a suitable dry position, above the waterline where possible. Connect all AC connections in accordance with IEC wiring regulations, ensuring the correct plug and socket are used.

Colour codes for mains cable are as follows;

- Brown Live
- Blue Neutral
- Green and Yellow Earth

IF IN DOUBT CONTACT A PROFESSIONAL MARINE ELECTRICIAN

SF12 Standard Package Contents

- 1x SF12 ultrasonic pulse generator control unit with 12 transducer outputs
- 12x Ultrasonic transducer
- 12x Ultrasonic transducer mounting object (rings or Pipe Adaptors (PA))
- Marine grade epoxy glue
- Coupling agent (Molykote BR2+)
- Vibration dampers
- Stainless steel mounting brackets
- 4x stainless steel bolts and nuts









Technical specifications

Brand	Lamers System Care B.V. / SmartFlow
Product code	SF05 / SF12
PSU approval	CE
Voltage	AC 110-240 50/60 Hz (DC range 22-30V)
Transducer	5 - 12 pcs.
Average power consumption	< 50 Watts
Control unit rating	IP66
Transducer rating	IP67
Weight	17 kg total weight - 4 kg (control unit) - 1.2 kg per transducer
Dimensions	406 x 401 x 120 mm
Warranty	2 years







Transducer dimensions



Ultrasonic antifouling system up close



Front view of the inside



Ultrasonic antifouling system up close





Mounting frame

Mounting holes - O





Installation customized



Option available to use extension cables and/or multicore with junction boxes to bridge gap to transducer locations. Each transducer can be extended up to 80m. See example below of a configuration using multicore:





To fully commission a control unit, the following settings must be applied:

- Set date and time
- Reset run timer
- Clear history log
- Switch on all transducers
- Set V-Ping

Homescreen

LamersSystem	Runtime Date 25 days 15-06-2023 13:00
Transducer status	System status
т1 🕜 т6 📿	Operational
T2 💽 T7 📀	Next service moment 25 days
тз 🐼 тв 🐼	
т4 💽 т9 📀	
T5 🐼 T10 🐼	System Activity Maintenance Service Information Log

Transducer status

Next service moment

System information

System status

Activity log

Service

Maintenance

Runtime

Date

- -> Check if transducers are properly connected
- -> Time system has been active since first startup
- -> Current date and time
- -> Current system status
- -> Amount of days left till next service moment
- -> Link to system information tab
- -> Link to activity log tab
- -> Link to maintenance tab
- -> Link to service tab

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Transducers
System Check-> Link to transducers tab
-> Link to Export data tabSystem Check
CheckExport
Check

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Transducer channel settings	(LSC	Transducer 1 settings		
		Transducer location		
		Location		
		Transducer pattern		
		Default pattern	- Edit	Add
		Transducer enabled		
Transducer location	Name trans	ducer location		
Transducer pattern	Dropdown-r	menu to select preferr	ed pattern for trans	sducer

- -> Switch transducer on/off
- -> Edit selected pattern

Transducer enabled

"Edit"

"Add"

-> Add new pattern



Pattern settings	LSC Pattern settings
	Pattern name
	Pattern synchronized Edit pattern Save changes
Pattern name	-> Name pattern
Pattern synchronized switch	-> Pattern synchronized on/off
"Edit pattern"	-> Link to edit pattern tab
"Save changes"	-> Save changes made to pattern







Activity log	LSC		Activity	Log
	(Туре	Description	Date / Time
Scroll up	<			~
Scroll dow	n			
	L			
Example:				
LSC activity log file	9			
Event type	Description	Date	/Time	Extra information
Device Event	Transducer not connected	12-10)-2024 15:44	4
Device Event	Transducer not connected	12-10)-2024 15:44	6
Device Event	Transducer not connected	12-10)-2024 15:44	7
Device Event	Transducer not connected	12-1()-2024 15:44	8
Activity Log				
Event type	-> Type of event			

Description	-> Description of event
Date/Time	-> Date and Time when event occurred
Extra information	-> Transducer number