

# SKIPPER DL1-Multi

## Single Axis Doppler Speed Log System

Speed Log

Single Axis

Compact Display

Speed Through Water

Accurate Readings

Water Temp



*The SKIPPER DL1 is a single axis speed log system, working on the Doppler principle, providing longitudinal ship's speed and distance relative to sea water. The SKIPPER DL1 gives accurate navigation parameters measured as they happen and presented in a logical user friendly way.*

SKIPPER Electronics manufacture marine electronics for the merchant fleet as well as the fishing fleet, based on experience, research and tradition. Our products are known worldwide for reliability, sophistication and good value for money.

### Features:

*Speed through water in 1 axis*

*Water temperature*

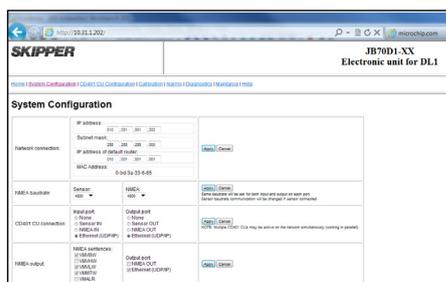
*Interfaces - NMEA 0183*

*Display - 28 x 30 LED dot matrix with full night dimming*

*3 easy to use user programmable displays, integrated menus*

*Fully automatic settings*

*Mounting options - Tank, sea valve for single or double bottom hull designs*



Web based configuration.

Doppler technology is considered as a good solution for speed log requirements. The SKIPPER DL1 measures the speed of the vessel through the water at all times and in any depth. The system includes a single sensor mounted in a tank or sea valve. The display housing can be mounted anywhere on the bridge. An electronic unit can be placed wherever it is most convenient for connection. A LAN port within the electronic unit allows for easy installation and diagnostics from a web page.

The JB70D1 is an electronic unit with extended connectivity, allowing the user to use yesterdays (pulse) outputs, today's (NMEA 0183), and tomorrow's (LAN) interfaces. In addition to the compact display setup, a web page setup and a calibration procedure is available. The "onboard intelligence" in each part of the system allows parts to be removed and replaced without reprogramming. OEM users can remove parts of the system and add their own items, but still get the advantages of the new system.

e-mail: [sales@skipper.no](mailto:sales@skipper.no)

[www.skipper.no](http://www.skipper.no)

Navigation Speed Logs, Echo Sounders, Sonar and Direction Finders

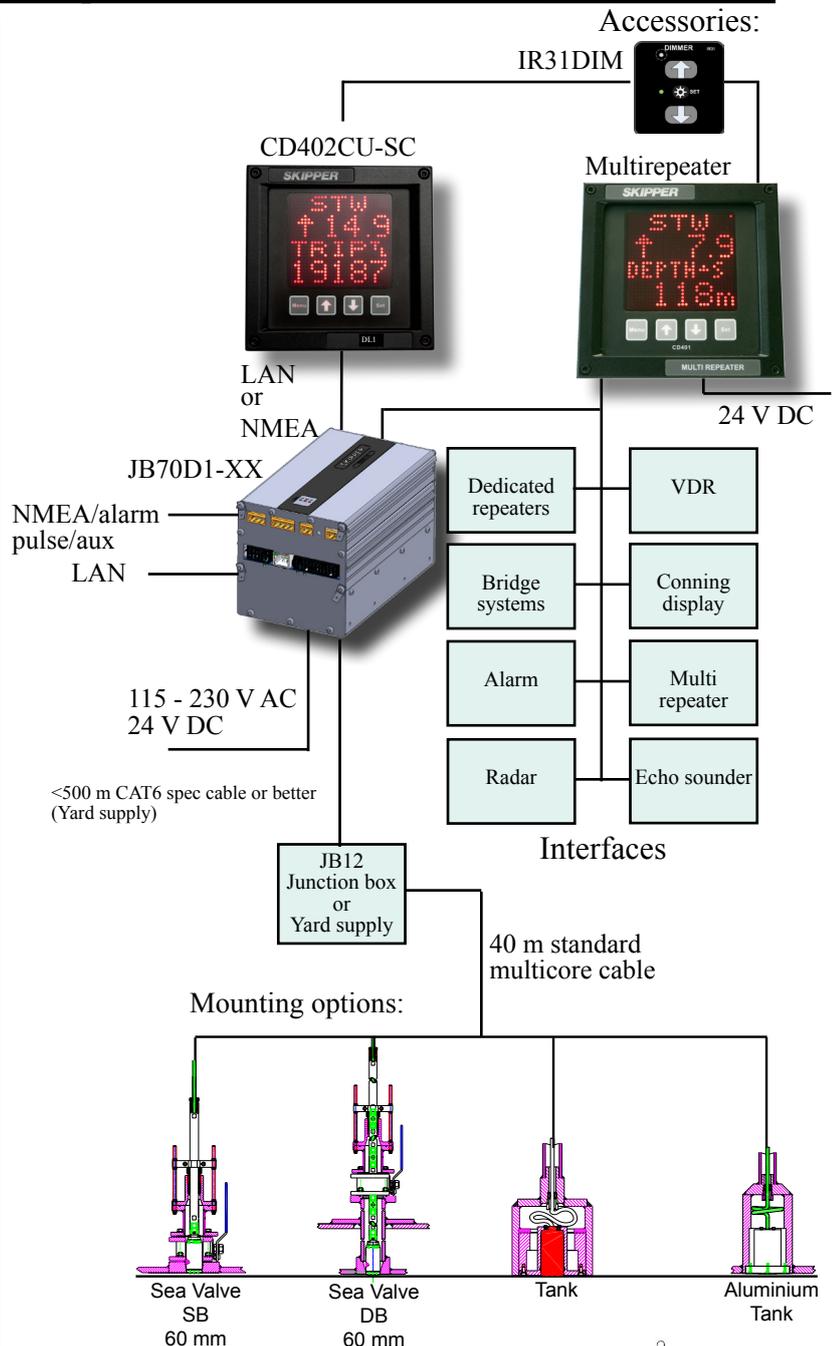
# SKIPPER DL1-Multi

## Single Axis Doppler Speed Log system

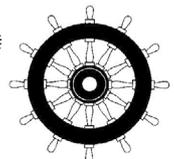
### Specifications

	SKIPPER DL1-Multi	Units
Number of Axis	1	
Speed range Long	±50	knots
Speed range Trans	na	knots
Water track (from)	2	m
Accuracy (better than)	0.2 or 2 % whichever is greater	knots
Speed resolution	0.1	
Temperature accuracy	Better than 1	°C
Temp resolution	0.1	
Compact Display	28 x 30	LEDs
Mounting dimensions Compact Display	124 x 124 Bracket or panel mounting	mm
Front plate Compact Display	144 x 144 to DIN standard	mm
Cabinet mounting depth with cable	90	mm
Weight cabinet	2.5	kg
Standard cable length for Compact Display	None - Pluggable (IP23)	
Standard cable length for sensor	40 (can be extended)	m
<b>Bottom mounting options</b>		
<b>Sea Valve:</b>		
Single bottom	Yes	
Double bottom	Yes	
<b>Tank:</b>		
Steel	Yes	
Aluminium	Yes	
Retrofit available for Sagem, Simrad NL, Sperry, SAM and Atlas dolog		
<b>Speed alarms</b>	<ul style="list-style-type: none"> <li>High and low speed limits</li> <li>Power failure</li> <li>Sensor failure</li> </ul>	
<b>Outputs</b>	<ul style="list-style-type: none"> <li>4 x NMEA 0183 (IEC61162-1/2)</li> <li>3 x isolated outputs (pulse, power failure etc.)</li> <li>Alarm (relay)</li> <li>LAN (IEC61162-450)</li> </ul>	
<b>Inputs</b>	<ul style="list-style-type: none"> <li>1 NMEA 0183 (OPTO isolated)</li> <li>External Dimming (pulse)</li> </ul>	
<b>Accepted NMEA formats</b>	<ul style="list-style-type: none"> <li>VTG, RMC, GGA, ACK</li> </ul>	
<b>Outputs</b>		
Speed	<ul style="list-style-type: none"> <li>VBW, VHW</li> </ul>	
Distance	<ul style="list-style-type: none"> <li>VLW</li> </ul>	
Others	<ul style="list-style-type: none"> <li>MTW (temp), ALR</li> </ul>	
<b>Power supply, JB70D1 CD402CU-XX</b>	<ul style="list-style-type: none"> <li>AC: 115 - 230 V 50/60 Hz</li> <li>DC: 24 V</li> </ul>	
<b>Power consumption</b>	<ul style="list-style-type: none"> <li>Max. 30 W</li> </ul>	
<b>Certified for MED B (Wheelmark)</b>	<ul style="list-style-type: none"> <li>IEC61023, IEC60945, IEC61162-1/2/450, IEC62288, ready for IEC61924</li> </ul>	
<b>Language</b>	<ul style="list-style-type: none"> <li>English</li> </ul>	

### Overview



# SKIPPER



SKIPPER Electronics AS  
Enebakkeveien 150  
P.O.Box 151, Manglerud  
0612 Oslo, Norway

E-mail: [sales@skipper.no](mailto:sales@skipper.no)

Telephone: +47 23 30 22 70

Telefax: +47 23 30 22 71

Co.reg.no: NO-965378847 - MVA

[www.skipper.no](http://www.skipper.no)

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All product specifications are subject to change without notice