



Welcome to the September newsletter from SKIPPER Electronics AS.

## **EML224 with a wide range of standard and retrofit solutions**

The SKIPPER EML224 is a Dual or Single Axis Electromagnetic Speed Log, providing longitudinal and transversal ship's speed (STW) and distance relative to sea water. The SKIPPER EML224 Compact gives accurate navigation parameters, measured as they happen and presented in a logical, user friendly way.

- **Speed through water in 1 or 2 axis**
- **Water temperature**
- **Interfaces - NMEA0183**
- **Display - 28x30 LED dot matrix with full night dimming**
- **3 easy to use, user programmable displays, integrated menus**
- **Fully automatic settings**
- **Support software for easy setup and diagnostics**

### **Part numbers needed:**

- CD401E1-SB CD401, Operating Unit for EML224 Single Axis SKIPPER Log
- CD401E2-SB CD401, Operating Unit for EML224 Dual Axis SKIPPER Log
- CD401EB-SB CD401, SKIPPER 2 Axis EML with Backwards Option
- JB60CD-SA Electronic unit for Speed log TTL comm. SKIPPER
- JB12-SA Junction box, 12 pole

### **Choice of sensor depends on bottom housing:**

- EML224SDB-SD Log sensor for SB/DB-100-SA GV complete EML224, (40 m cable included)
- EML224SG-SD Log sensor for SB/DB Sea Valve complete EML224, SKIPPER (40 m cable included)
- EML224SN-SD Log sensor for Simrad NL-LOG fittings EML224, SKIPPER (40 m cable included)
- EML224SS-SD Log sensor for Sagem/Safran fittings EML224, SKIPPER (40 m cable included)
- EML224ST-SD Log sensor for Tank complete EML224, SKIPPER (40 m cable included)
- EML224STA-SD Log sensor for combo alu. Tank complete EML224, SKIPPER (40 m cable included)
- EML224SV-SD Log sensor for Naviknot SRD331 and 450D, complete EML224, SKIPPER (40 m cable included) (Yet to be released)
- EML224SX-SD Log sensor for PCSV60 Sea Valve complete EML224, (40 m cable



included)

For the retrofit sensors the bottom housing is already installed in the vessel. If you need a new system with bottom housing you have a choice between:

- Sea valve for double or single bottom
- Steel tank
- Aluminium tank

[Click here for EML224 web site.](#)

### Printer improvements in the ESN Echo Sounder range

The long awaited LAN print options are now being released into the ESN range.

Both the ESN100 and ESN200 will, in the latest software, have a menu for print setup. In this menu, the LAN printer can now be selected.

When connected by LAN to a Windows PC, the SKIPPER service software, or a stand alone software (Available for free from the SKIPPER website), can be used to allow the PC's local or LAN printers to be used as a hard copy printer.

Using the Runtime setup on the ESN, a button can be added to the user screens, to turn on and off the printer. Or this can also be done from the PC software.

### ESN internal logging extended to 24 hrs

To be compatible with the specification of the GDS series of echosounders, the ESN internal memory (History) has been extended to 24h. The ESN200 has additional options of using USB or SD disk for long term logging.

### ESN improvements

Changes in the ESN algorithms have now improved the capabilities of the system to measure in very shallow water. In addition a 'calibration' feature is added to allow the user to optimize the detection algorithms for their particular installation, giving longer range and better bottom detection capabilities. The ESN series is designed to have fully automatic settings, allowing the system adjust dynamically to different sea and bottom conditions. These options are under continual improvement, so it is worth updating software when you can.

The ESN200 is the recommended echosounder product in the SKIPPER range, Customers are often requesting new features, and our development team introduce these into the ESN200 first, The ESN200 has most IO types allowing these to be configured to meet most needs. We are currently working on synchronizing features, INS formatting and alarm methods will also be updated to the latest standards in the near future.

### Training Courses in 2020

We are sorry to inform that due to the uncertain situation with the COVID-19, we have decided to cancel the SKIPPER technical trainings.

New dates for the training courses will be announced as soon as the situation has normalised.

The following training courses are postponed:

Date	Place	Host Comany	Duration (Days)
Postponed	Singapore	Jason Electronics	4 - Fully booked
Postponed	Singapore	Jason Electronics	4 - Few seats!
Cancelled	Spain	Sandvik Marine Electronics SL	4
Cancelled	Dubai	KDU Marine Equipment Trading and Maintenance L.L.C.	4

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If you want to join one of these training courses please send your request to [support@skipper.no](mailto:support@skipper.no).

**Best regards,**

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