

# **DOPPLER SPEED LOG**

Doppler Speed Log

## **DS-80**



- ▶ Speed and distance run indicated on a large illuminated LCD display
- ▶ Compact display unit and transducer
- ▶ High accuracy by utilizing the Doppler principle, paired beam eliminating effect of pitching, and velocity correction for change of water temperature
- ▶ Easy speed correction at mile post run

- ▶ Speed output to ARPA, radar, ECDIS, AIS, VDR, GMDSS equipment, etc.
- ▶ Complies with IMO standards MSC.96 (76), A.824 (19), A.694 (17), IEC 61023 and other related standards
- ▶ Fully meets SOLAS carriage requirement for ships over 300GT
- ▶ Fits to the hull either directly or with a gate valve

## SPECIFICATIONS

- |                     |                                                                                                                            |
|---------------------|----------------------------------------------------------------------------------------------------------------------------|
| 1. Product Name     | DOPPLER SPEED LOG                                                                                                          |
| 2. Measuring System | Paired-beam Doppler log, 1 MHz                                                                                             |
| 3. Display unit     | 4.5" (95 x 60 mm) Monochrome LCD<br>120 x 64 pixels                                                                        |
| Character size:     | 15 or 21 mm high selectable                                                                                                |
| 4. Speed Range      | Forward: 0 - 40 kn, 0.1 kn steps<br>Astern: 0 - 10 kn, 0.1 kn steps                                                        |
| 5. Distance Run     | 0-999,999.99 NM,<br>resettable to any value.                                                                               |
| 6. Accuracy         | Speed through-the-water (STW):<br>1%, display resolution 0.1 kn<br>Distance run: 1%, in steps of 0.1 NM<br>Deeper than 3 m |
| 7. Water Depth      |                                                                                                                            |
| 8. Correction       |                                                                                                                            |
| Sound velocity:     | Automatic correction for change of<br>water temperature                                                                    |
| Mile post run:      | ±10% on menu                                                                                                               |
| 9. Test             | -10 and 40 kn                                                                                                              |
| 10. Power Supply    | 115/230 VAC                                                                                                                |
| 11. Interface       | IEC 61162-1                                                                                                                |
| Output:             | VBW, VLW                                                                                                                   |

## ENVIRONMENT (IEC 60945 test method)

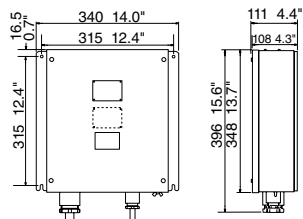
- |               |                                  |
|---------------|----------------------------------|
| Temperature   | -15°C to +55°C (Display unit)    |
| Waterproofing | Display unit; IPX5 CFR-46 (USCG) |

## EQUIPMENT LIST

- |                                                    |        |  |
|----------------------------------------------------|--------|--|
| <b>Standard</b>                                    |        |  |
| 1. Main Display DS-800                             | 1 unit |  |
| 2. Transducer Unit DS-820<br>with 10/20/30 m cable | 1 unit |  |
| 3. Transceiver Unit DS-810                         | 1 unit |  |
| 4. Distribution Box DS-801                         | 1 unit |  |
| 5. Terminal Box DS-802                             | 1 unit |  |
| <b>Option</b>                                      |        |  |
| 1. Digital Indicator DS-830                        | 1 unit |  |
| 2. Remote Distance Indicator DS-840                | 1 unit |  |
| 3. Transducer Tank DS-850                          | 1 unit |  |
| 4. Flush Mount Kit F type or S type                | 1 unit |  |
| 5. Gate Valve DS-782, DS-786                       | 1 unit |  |
| 6. Junction Box CI-630                             | 1 unit |  |
| 7. Analog Display                                  | 1 unit |  |

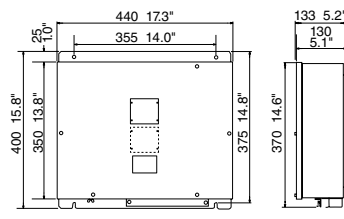
## TRANSCIVER UNIT DS-810

8.0 kg, 17.6 lb

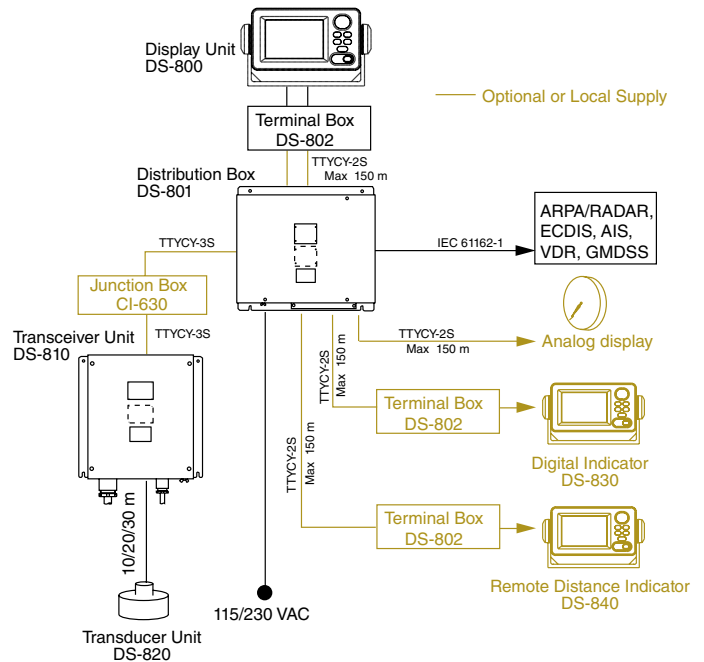


## DISTRIBUTION BOX DS-801

14 kg, 30.9 lb

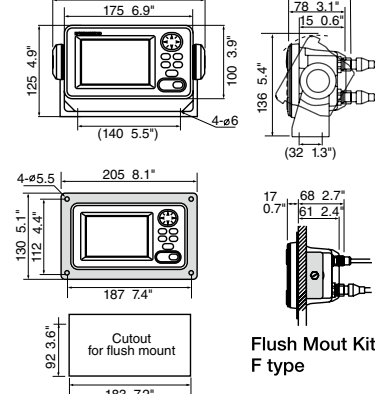


## INTERCONNECTION DIAGRAM



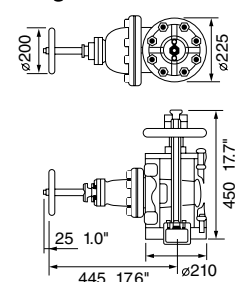
## DISPLAY UNIT DS-800

0.6 kg, 1.3 lb



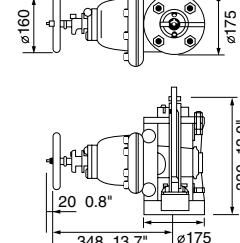
## GATE VALVE DS-782

75 kg, 165.3 lb



## DS-786

40 kg, 88.1 lb



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