



SMIDS
KW919

World Leaders in
Interfacing
and
Retransmission



SHIPS MOVEMENT INFORMATION DISPLAY SYSTEM

The **Ships Movement Information Display System** (SMIDS) measures speed over ground at the bow and the stern of the vessel. The system replaces the SONAR Doppler-docking systems with satellite technology.

Significant savings can be made when retrofitting an existing docking system with SMIDS as the existing Doppler system cables will normally be utilised hence saving time and money. The system can be installed without the need to dry-dock as it can also be fitted whilst the ship is in transit thus avoiding operational down time.

KW991-ND SMIDS NAVIGATOR'S DISPLAY

- Page 1. Satellites status, number of satellites, and signal strengths
- Page 2. Bow and stern dual axis ground speeds
 - Distance run in the direction of the bow
 - Facility to reset distance and distance at last hour
- Page 3. GPS Position, UTC time, COG and SOG
- Page 4. Dual axis speed through water (Option requires NMEA speed log input)

KW991-HR HEADING DISPLAY

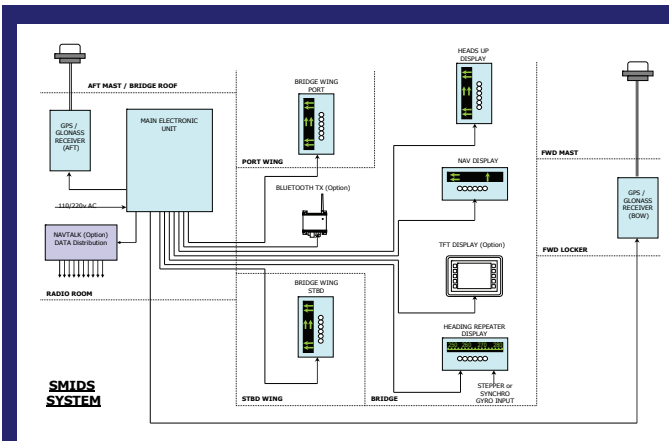
Inputs ship's gyro heading from a Stepper or Synchro signal. This information is converted to NMEA \$HEHDT for distribution to the SMIDS system.

This unit displays: -

- Page 1. Tape +/- 15 degrees Heading
- Page 2. Tape +/-12.5 degrees Heading
- Page 3. Large digital numerals Heading
- Page 4. Rate Of Turn display
- Page 5. Off Course Alarm

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KW991-SD SMIDS Heads Up Display

Page 1. Bow and stern satellite status
Page 2. Bow and stern dual axis ground speeds
Ships heading from the ships gyro

KW990 SMIDS MAIN ELECTRONICS UNIT

This is the central control box and DC power supply for all the displays. The MEU has two processes which: -

1. Combines and distributes the raw data to the SMIDS displays.
2. Distributes the processed data from the Navigational display i.e. \$VDVBW bow and stern dual axis speed & \$VDVLW \$HEHDT heading and \$HEROT, \$GPGGA, \$GPGLL, \$GPVTG, \$GPZDA & \$GPDTM \$PAMI proprietary satellite status data.

KW993 SMIDS SATELLITE RECEIVERS

GRACIE (GPS Regulator and Control Interface Equipment) mounted in enclosure 260 x 160 x 90 mm. Complete with BNC socket.

The SMIDS satellite receivers and antenna are installed at the bow and the stern. They send the "raw sensor data" to the MEU.

ACCURACY

Based on the satellite receiver used and the number of satellites received, mean velocity better than +/- 0.02 knots.

All displays are mounted in a die cast box 260 x 160 x 90 mm and come complete with trunion or flush mountings.

The display units are not suitable for permanent mounting outside without special environmental enclosures.

For versatility and ease of use the **SMIDS PDA** is ideal.

LLOYDS & MED TYPE APPROVED

SMIDS conforms to IMO rules A.824 (19) for ships speed and distance measuring equipment. MSC.74 (74) (annex 1) performance of combined GPS and GLONASS receiver equipment. IEC60945 and IEC61023

NOTE:- We are in the final stages of approval of SMIDS as a Ships Secondary GPS System