SHIPS SPEED AND DISTANCE MEASUREMENT DEVICE

DATASHEET

SMIDS Pro / MKIII

ACCURATE SAFETY INFORMATION

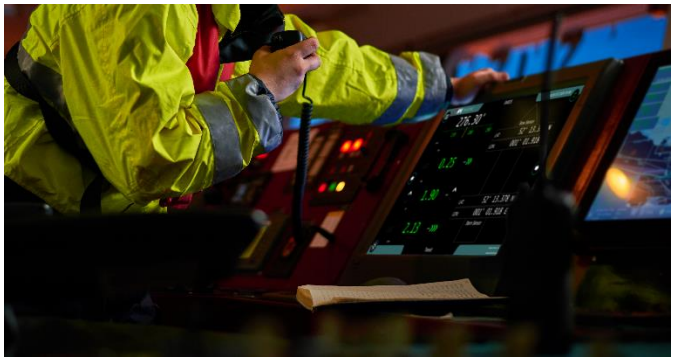
SMIDS is Commercial Maritime's most economic and accurate SDME (Speed Distance Measuring Equipment) system using state of the art technology to provide vessel Distance to Berth and Course Prediction options.

SMIDS calculates and displays vessel movement information, reporting the ground speed of the vessel's heading, and sideways movement at the bow and stern, with an accuracy of 0.01 knots, assisting the navigating crew to make informed decisions in all sea states and weather conditions.

SMIDS safely records all ship's movement data and provides easy to use playback software for future performance evaluations, training, and when necessary, incident investigation.

SMIDS is the perfect solution for LNG vessels, lightering, dredging, offshore discharge and ships that frequently manoeuvre without tugs in adverse weather and tidal conditions.

SMIDS is the essential aid for LNG/LPG vessels, Semi-Submersibles, Heavy Sealift vessels, Coastal, Aframax, Suez-Max, VLCC and ULCC tankers, Refuelling vessels, Bulk Cargo Barges, Ro-Ro Cargo vessels, and many more.



DESIGNED IN COMPLIANCE WITH

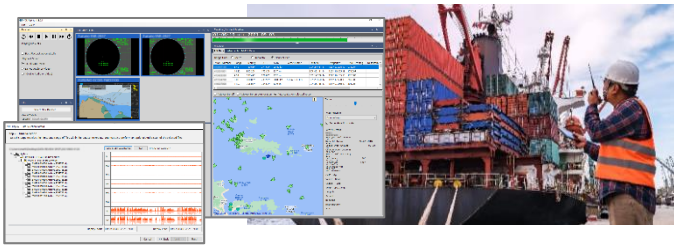
- IEC 61023:2007 - Marine Speed and Distance Measuring Equipment (SDME)
- IEC 61108-1 and 2 - GPS and GLONASS Receiver Equipment
- ISO 22090-3:2014 – Transmitting Heading Device (THD)

BENEFITS

- Globally reliable, accurate and unaffected by detritus in river/estuary water, disturbed silt, or cavitation.
- Well suited to Northern passage routes.
- Simple retrofit while at sea; easier to install than a conventional Doppler Docking System.
- Suited to most commercial vessels, especially those where visibility is restricted on busy deck spaces.
- Stern, Bow and Midships distance to berth information to assist with berthing.
- Recall saved berths position data.
- Predictive Course indication.
- Logs journey time and total distance travelled.

DATA RECORDING AND PLAY BACK

SMIDS has full data recording capabilities, with the internal storage retaining over 50 days of accurate ships movement information. All data may be reviewed using the supplied AMI Data Replay Software.



All features and specifications are preliminary and are subject to change without notice.
All approvals mentioned are currently underway and in final stages of testing.

AMI MARINE

SHIPS SPEED AND DISTANCE MEASUREMENT DEVICE DATASHEET

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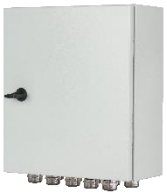
SPECIFICATIONS



MAIN ELECTRONIC UNIT (MEU) MEU-0021

FEATURES:
NMEA Inputs
NMEA Output (38,400 Baud Rate)
50 Days of Data Storage via Solid State Drive

POWER: 24Vdc
DIMENSIONS: 300 x 400 x 155mm 8kg

15" MAIN DISPLAY DSP-0032

FEATURES:
High Resolution (1920X1080)
PCAP Touch Screen Display
Dimming Switch
Can be Vesa or Flush mounted

POWER: 24Vdc supplied by the MEU
DIMENSIONS: 415 x 290 x 61mm 2kg

10.4" REMOTE INTERNAL DISPLAY DSP-0033

FEATURES:
Resolution of 768x1024
PCAP Touch Screen Display
Can be Vesa or Flush mounted

POWER: 24Vdc supplied by the MEU
DIMENSIONS: 296 x 236 x 46mm 2kg

10.4" REMOTE EXTERNAL DISPLAY DSP-0034

FEATURES:
Resolution of 768x1024
IP67 Rated Touch Screen Display
Can be Vesa or Flush mounted
**INT-0052 required per DSP-0034

POWER: 24Vdc supplied by the MEU
DIMENSIONS: 250 x 315 x 67mm 2kg

GNSS ANTENNA ANT-0004

FEATURES:
GNSS Data collection

POWER: 5Vdc supplied by the GNSS Receiver Interface
DIMENSIONS: 130 x 130 x 61mm 0.38kg

GNSS RECEIVER INTERFACE INT-0048 / INT-0049

FEATURES:
Data collection from Antenna to MEU

POWER: 24Vdc supplied by the MEU
DIMENSIONS: 188 x 245 x 56mm 1.5kg

SMIDS PRO SYSTEM SCREENS

SMIDS Berth and Lat/Lon
Vessel Berthing Assist and indivdual Bow/Stern Latitude and Longitude

SMIDS Berthing Information Page
Fore and Aft Speed, Bow/Stern Sideways Movement Speeds, Gyro Heading and Vessel Berthing Assist

SMIDS Movement Page
Comparator, Wind & Rudder Data

Berth Selection Page
Select saved locations or add to stored library

*Please note that this is not a Dynamic Positioning Device or System

SMIDS PRO SYSTEM OPTIONS

SMIDS Pro Standard System / SYS-0092

Main Electronics Unit / MEU-0021	1pc
Main System Display / DSP-0032	1pc
SMIDS Pro Main Display Cable Kit / KIT-0050	1pc
GNSS Receiver Interface (Dual) / INT-0049	2pc
SMIDS Pro Antenna / ANT-0004	2pc

- Marine Speed and Distance Measuring Equipment (SDME) IEC 61023:2007
- GPS & GLONASS Receiver Equipment IEC 61108-1 and 2

SMIDS Pro Standard System plus THD / SYS-0093

Main Electronics Unit / MEU-0021	1pc
Main System Display / DSP-0032	1pc
SMIDS Pro Main Display Cable Kit / KIT-0050	1pc
GNSS Receiver Interface (Dual) / INT-0048	1pc
GNSS Receiver Interface (Single) / INT-0049	1pc
SMIDS Pro Antenna / ANT-0004	3pc

- Marine Speed and Distance Measuring Equipment (SDME) IEC 61023:2007
- GPS & GLONASS Receiver Equipment IEC 61108-1 and 2
- Transmitting Heading Device (THD) ISO 22090-3:2014

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