



SPEED AND DISTANCE MEASUREMENTS EQUIPMENT

AMI's type approved SMIDS docking and manoeuvring system delivers precise and continuous vessel motion and speed information to masters and pilots in even the most severe operating conditions. Employing all available GPS and GLONASS satellites SMIDS delivers critical manoeuvring data, worldwide, regardless of sea state or water conditions.

Navigating or manoeuvring in strong winds or currents and in confined waters requires skill and so places severe demands on masters and pilots. Reliable and accurate information on ship movement is essential to maximise safety, reduce the risk of structural damage to ship (and shore) infrastructure minimising the threat of accidental pollution.

Highly sensitive, and accurate to 0.01knots, SMIDS will detect and display vessel movement instantly - often before it is visibly apparent - ensuring vessel movement can be precisely controlled and corrective action can be taken at the earliest opportunity. It is the perfect solution for large vessels, those where visibility is restricted, lightering, dredging and for ships that frequently manoeuvre without tugs in adverse weather conditions.

Separate bow and stern sensors measure rather than calculate motion and are completely unaffected by depth and salinity of water, aeration caused by propeller cavitation and other conditions that affect hull mounted sensors.

Whether equipping a new build or for retrofit projects, SMIDS is an ideal cost effective replacement for Doppler docking systems and can even be installed at sea as no through hull penetrations are required.

Dual axis movement is presented on clear easy to read displays, combined with optional portable displays which make SMIDS the docking system of choice.

SMIDS is type approved as Speed and Distance Measuring Equipment and is fully compliant with IEC 61023 as required by SOLAS V/19 2.9.2 for vessels over 50,000gt.

- Accurate to 0.01 knots
- Reliable and accurate globally in any sea state
- Easy retrofit while at sea No through hull fittings
- Unaffected by water conditions
- Cost effective and reliable – no on-going maintenance



TAB-0004

Zone 2 ATEX Approved Tablet



X991-N

Navigator's Display



X991-H

Heading Tape Display

SPECIFICATIONS

SMIDS MAIN ELECTRONIC UNIT (MEU-0004)

POWER 115/230v DC
INPUT NMEA 0183 Raw Data
OUTPUT NMEA0183 Processed Data
DIMENSIONS 500 x 400 x 160mm 13.6kg

NAVIGATOR'S DISPLAY (X991-N)

POWER 24v at 12w. Switch on surge 2 amps.
INPUT Raw Data
OUTPUT NMEA 0183 Processed Data
DIMENSIONS 330 x 180 x 90mm 2.8kg

HEADING TAPE DISPLAY (X991-H)

POWER 24v DC. Switch on surge 2 amps.
INPUT DC and rectified unsmoothed DC stepper, 4 to 90v.
 360:1 Synchro up to 115v/90v. 50/60 400/500Hz.
 90X 400 Hz contactless transmitter.
 Tracking rate = Frequency/3deg/sec.
 (DC step 333 deg/sec) NMEA 0183 input, so both input channels are NMEA.
OUTPUT Input 1 must be \$HEHDT, x.x, T NMEA0183, all heading sentences, with gyro priority.
DIMENSIONS NMEA 0183 Heading & ROT
 330 x 180 x 90mm 2.8kg

HEADS UP DISPLAY (X991-S)

POWER 24v at 12w. Switch on surge 2 amps.
INPUT Raw Data
OUTPUT NMEA 0183 Processed Data
DIMENSIONS 330 x 180 x 90mm 2.8kg

GRACIE BOW AND STERN (X993 -J) 24v DC

POWER INPUT: RTCM (optional)
OUTPUT NMEA 0183
DIMENSIONS 160 x 160 x 90mm 1.8kg

SATELLITE ANTENNA BOW AND STERN (ANT-0001)

POWER 5v DC
OUTPUT Satellite Signal
DIMENSIONS 150 x 150 x 96mm 1.5kg

APPROVALS IMO Resolution A.824(19), A.694(17), MSC.96(72), MSC.36(63), MSC.97(73), MSC.191(79), IEC 61023(2007), IEC 61162 series, IEC 60945 (2002) incl. Corr. 1(2008), IEC 62288(2008)

PRECONFIGURED SMIDS SYSTEMS

SMIDS Basic System - 1 Display System (SYS-0052)

1x SMIDS Main Electronic Unit (MEU-0004)
 1x Navigator's Display (X991-N)
 2x GRACIE Bow/Stern (X993 -J)
 2x Satellite Antenna Bow/Stern (ANT-0001)



SMIDS Premium System - 3 Display System (SYS-0053)

1x SMIDS Main Electronic Unit (MEU-0004)
 1x Navigator's Display (X991-N)
 1x Heading Tape Display (X991-H)
 1x Heads Up Display (X991-S)
 2x GRACIE Bow/Stern (X993 -J)
 2x Satellite Antenna Bow/Stern (ANT-0001)

