



## National Marine Electronics Association

### Approved 0183 Manufacturer's Mnemonic Codes

*Yellow highlights indicate code is reserved by NMEA for future use*

February 2026

3SN	3-S NAVIGATION
AAB	ASM SELECTIVE ADDRESSED MESSAGE (RESERVED FOR FUTURE USE)
AAR	ASIAN AMERICAN RESOURCES
ABB	ASM BROADCAST MESSAGE (RESERVED FOR FUTURE USE)
ACC	ASM COAST STATION CONFIGURATION COMMAND (RESERVED FOR FUTURE USE)
ACD	ACCORD SOFTWARE & SYSTEMS PVT. LTD.
ACE	AUTO-COMM ENGINEERING CORP.
ACR	ACR ELECTRONICS, INC.
ACP	AUTORIDAD DEL CANAL DE PANAMA
ACS	ARCO SOLAR, INC.
ACT	ADVANCED CONTROL TECHNOLOGY
ADM	ASM VHF DATA-LINK MESSAGE (RESERVED FOR FUTURE USE)
ADI	ADITEL
ADN	AD NAVIGATION
ADO	ASM VHF DATA-LINK OWN-VESSEL REPORT (RESERVED FOR FUTURE USE)
AFS	AUTRONICA FIRE AND SAFETY
AGB	ASM GEOGRAPHICAL MULTICAST MESSAGE (RESERVED FOR FUTURE USE)
AGI	AIRGUIDE INSTRUMENT CO.
AGL	ALERT GROUP LIST (RESERVED FOR FUTURE USE)
AHA	AUTOHELM OF AMERICA
AIP	AIPHONE CORP.
ALD	ALDEN ELECTRONICS, INC.
AMA	ASM MESSAGE ASSEMBLY SENTENCE
AMB	AMBARELLA INC
AMC	ALLTEK MARINE ELECTRONICS CORP.
AMI	ADVANCED MARINE INSTRUMENTATION, LTD.
AMK	ASM ADDRESSED AND BROADCAST MESSAGE AKNOWEGMENT (RESERVED FOR FUTURE USE)
AMM	AQUAMETRO MARINE GmbH
AMR	AMR SYSTEMS
AMP	AMPELMANN OPERATIONS BV
AMT	AIRMAR TECHNOLOGY
AND	ANDREW CORPORATION

ANI AUTONAUTICAL INSTRUMENTAL S.L.  
ANS ANTENNA SPECIALISTS  
ANX ANALYTYX ELECTRONIC SYSTEMS  
ANZ ANSCHUTZ OF AMERICA  
AOB AEROBYTES LTD  
APC APELCO  
APN AMERICAN PIONEER, INC.  
APO AUTOMATED PROCEDURE OPTIONS (RESERVED FOR FUTURE USE)  
APW AUTOMATIC POWER, INC. / PHAROS MARINE  
APX AMPEREX, INC.  
AQC AQUA-CHEM, INC.  
AQD AQUADYNAMICS, INC.  
AQM AQUA METER INSTRUMENT CO.  
ARL ACTIVE RESEARCH LIMITED  
ART ARLT TECHNOLOGIES GmbH  
ARV ARVENTO MOBILE SYSTEM A.S.  
ASG ASM COAST STATION CONFIGURATION STATUS GENERAL (RESERVED FOR FUTURE USE)  
ASH ASHTECH  
ASM (RESERVED FOR FUTURE USE)  
ASP AMERICAN SOLAR POWER  
ASQ (RESERVED FOR FUTURE USE)  
ATC ADVANCED C TECHNOLOGY, LTD  
ATE AETNA ENGINEERING  
ATM ATLANTIC MARKETING COMPANY  
ATR AIRTRON  
ATV ACTIVATION, INC.  
AUC AUTOMATED PROCEDURE CONTROL (RESERVED FOR FUTURE USE)  
AUP AUTOMATED PROCEDURE QUERY (RESERVED FOR FUTURE USE)  
AUS AUTOMATED PROCEDURE STATUS (RESERVED FOR FUTURE USE)  
AVN ADVANCED NAVIGATION, INC.  
AVK AVIKUS  
AWA AWA NEW ZEALAND, LTD.  
AXN AXIOM NAVIGATION, INC.  
ATO AOHAHAI TECHNOLOGY CO., LTD  
  
BBG BBG INCORPORATED  
BBL BBL INDUSTRIES, INC.  
BBR BBR AND ASSOCIATES  
BDV BRISSON DEVELOPMENT, INC.  
BEC BOAT ELECTRIC CO.  
BFA BLUEFLOW AMERICAS  
BGG BODENSEE GRAAVITYMETER GEOSYSTEMS GmbH  
BGS BARRINGER GEOSERVICE  
BGT BROOKES AND GATEHOUSE, INC.  
BHE BH ELECTRONICS  
BHR BAHR TECHNOLOGIES, INC.  
BLB BAY LABORATORIES  
BMC BMC  
BME BARTEL MARINE ELECTRONICS  
BMS BECKER MARINE SYSTEMS  
BMT AVENTICS GmbH (formerly Bosch Rexroth AG Marine Technique)  
BNI NEIL BROWN INST. SYSTEMS  
BNS BOWDITCH NAVIGATION SYSTEMS

BRM MEL BARR COMPANY  
BRO BROADGATE, LTD  
BRY BYRD INDUSTRIES  
BTH BENTHOS, INC.  
BTK BALTEK CORP.  
BTS BOAT SENTRY, INC.  
BVE BV ENGINEERING  
BXA BENDIX-AVALEX, INC.

CAI CAMBRIDGE AERO INSTRUMENTS  
CAT CATEL  
CAS CAIM SCARL  
CBN CYBERNET MARINE PRODUCTS  
CCA COPAL CORP OF AMERICA  
CCC COASTEL COMMUNICATIONS CO.  
CCL COASTAL CLIMATE COMPANY  
CCM COASTAL COMMUNICATIONS  
CDC CORDIC COMPANY  
CDI CHETCO DIGITAL INSTRUMENTS  
CDL CDLTD INC  
CDS CENTRAL DIMMING SET (RESERVED FOR FUTURE USE)  
CEC CECO COMMUNICATONS, INC.  
CEI CAMBRIDGE ENGINEERING, INC.  
CFS CARLISLE AND FINCH COMPANY  
CHI CHARLES INDUSTRIES, LTD.  
CIN CANADIAN AUTOMOTIVE INSTRUMENTS  
CKM CINKEL MARINE ELECTRONICS  
CLR COLORLIGHT AB  
CMA SOC. NOUVELLE D'EQUIP. CALVADOS  
CMC COE MANUFACTURING CO.  
CME CUSHMAN ELECTRONICS, INC.  
CML CML MICROSYSTEMS, PLC  
CMM CMC MARINE  
CMN COMNAV MARINE, LTD.  
CMP C-MAP, SRL.  
CMS COASTAL MARINE SALES CO.  
CMV COURSEMASTER USA, INC.  
CNF FUJIAN FEITONG COMMUNICATION TECHNOLOGY CO., LTD  
CNI CONTINENTAL INSTRUMENTS  
CNS C.N.S. SYSTEMS AB  
CNV COASTAL NAVIGATOR  
CNX CYNEX MANUFACTURING CO.  
CPL COMPUTROL, INC.  
CPN COMPUNAV  
CPS COLUMBUS POSITIONING, LTD  
CPT CPT, INC.  
CRE CRYSTAL ELECTRONICS, LTD  
CRO THE CARO GROUP  
CRY CRYSTEK CRYSTALS CORP.  
CSI COMMUNICATION SYSTEMS INTL  
CSM COMSAT MARITIME SERVICES  
CSR CSR STOCKHOLM  
CSS CNS INC  
CST CAST, INC.

CSV	COMBINED SERVICES
CTA	CURRENT ALTERNATIVES
CTB	CETEC BENMAR
CTC	CELL-TECH COMMUNICATIONS
CTE	CASTLE ELECTRONICS
CTL	C-TECH, LTD.
CTP	CATERPILLAR INC
CTS	C-TECH SYSTEMS
<b>CUL</b>	<b>CYCLIC PROCEDURE LIST (RESERVED FOR FUTURE USE IN DSC)</b>
CUS	CUSTOMWARE
CWD	CUBIC WESTERN DATA
CWF	HAMILTON JET
CWV	CELWAVE R.F., INC.
<b>CYL</b>	<b>CYCLIC PROCEDURE LIST (RESERVED FOR FUTURE USE)</b>
CYZ	CYZ, INCORPORATED
DAN	DANELEC MARINE A/S
DAS	DASSAULT SERCEL NAVIGATION-POSITIONING
DBM	DEEP BLUE MARINE
DBE	DENBRIDGE MARINE
DCC	DOLPHIN COMPONENTS CORP.
DEB	DEBEG GMBH
DEC	DECCA DIVISION, LITTON MARINE SYSTEMS, BV
DFI	DEFENDER INDUSTRIES, INC.
DGC	DIGICOURSE, INC.
DGY	DIGITAL YACHT LTD
DGP	DIGPILOT AS
DME	DELORME
DMI	DATAMARINE INTERNATIONAL
DNP	DANPHONE A/S
DNS	DORNIER SYSTEM GMBH
DNT	DEL NORTE TECHNOLOGY, INC.
DOI	DIGITAL OCEANS INC.
DPC	DATA PANEL CORP
DPS	DANAPLUS, INC.
DRL	R.L.DRAKE COMPANY
DSC	DYNASCAN CORP.
DST	DEEP SEA TECHNOLOGIES
DTN	DYTECHNA, LTD
DTW	DATAWELL BV
DYA	FUZHOU DEYI ELECTRONIC TECHNOLOGY CO.LTD
DYC	DYNACORD
DYN	DYNAMOTE CORPORATION
DYT	DYTEK LABORATORIES, INC.
DWB	DIGITAL WORKBENCH GMBH
EAN	EURO AVIONICS NAVIGATIONSSYSTEME GmbH
EBC	EMERGENCY BEACON CORP.
ECR	ESCORT, INC.
<b>ECI</b>	<b>ENHANCED SELECTIVE CALLING INFORMATION (RESERVED FOR FUTURE USE)</b>
ECT	ECHOTEC, INC.
EDO	EDO CORPORATION ELECTROACOUSTICS DIV.
EEL	ELECTRONICA EUTIMIO S.L.
EEV	EEV, INC.

EEE EXACTEARTH LIMITED  
 EFC EFCOM COMMUNICATION SYSTEMS  
 EIZ EIZO CORPORATION  
 EKC EASTMAN KODAK  
 EKM EKM CO LTD  
 ELA WARTSILA ELAC NAUTIK GmbH (formally L-3 COMMUNICATIONS ELAC NAUTIK GmbH)  
 ELD ELECTRONIC DEVICES, INC.  
 ELM ELMAN s.r.l  
 EMC ELECTRIC MOTION COMPANY  
 EMK E-MARINE CO. LTD , (South Korea)  
 EMR EMRI-AS DK  
 EMS ELECTRO MARINE SYSTEMS, INC.  
 ENA ENERGY ANALYSTS, INC.  
 ENC ENCRON, INC.  
**EPL (RESERVED FOR FUTURE USE)**  
 EPM EPSCO MARINE  
 EPS SEIKO EPSON CORPORATION  
 EPT EASTPRINT, INC.  
 ERC THE ERICSSON CORPORATION  
 ERD ERIDE INC.  
 ESA EUROPEAN SPACE AGENCY  
 ESC ELECTRONICS EMPORIUM, DIVISION OF ESC PRODUCTS  
 ESY E-SYSTEMS, ECI DIVISION  
 EVS EVVOS S.A.  
 EVX EVEX CO., LTD  
 EWR ETHERWHERE  
 EXA EXAIL

FDC FDC  
 FDN FLUIDDYNE  
 FEC FURUNO ELECTRIC CO.  
 FHE FISH HAWK ELECTRONICS  
 FJA INGENIEURBÜRO DIPL. ING. (FH) FRIEDRICH JANUS  
 FJN JON FLUKE CO.  
 FLA FLARM TECHNOLOGY GMBH (SWITZERLAND)  
 FLO FLOSCAN INCORPORATED  
 FMM FIRST MATE MARINE AUTOPILOTS  
 FMS FUGRO SEASTAR AS (MARINESTAR)  
 FNT FRANKLIN NET AND TWINE, LTD  
 FRC THE FREDERICKS COMPANY  
 FSC FREQUENCY STATUS AND COMMAND (Reserved for future use may replace fss) 20200601  
**FSS FREQUENCY SELECTION (RESERVED FOR FUTURE USE)**  
 FST FASTRAX OY  
 FTG T.G.FARIA CORPORATION  
 FTT FT- TEC  
 FUG FUGRO INTERSITE B.V.  
 FUJ FUJITSU TEN CORPORATION OF AMERICA  
 FUR FURUNO USA, INC.  
 FWG FORSCHUNGSBEREICH, WASSERCHALL AND GEOPHYSIK WTD 71

GAM GRE AMERICA, INC.  
 GCA GULF CELLULAR ASSOCIATES  
 GCF GEOMETRY FREE COMBINATION

**GDC GNSS DIFFERENTIAL CORRECTION (RESERVED FOR FUTURE USE)**

GEC GEC PLESSEY SEMICONDUCTORS  
GEM GEM ELETTRONICA SRL  
GES GEOSTAR CORPORATION  
GFC GRAPHIC CONTROLS, CORP.  
GFV GFV MARINE LTD.  
GIL GILL INSTRUMENTS LIMITED  
GIS GALAX INTEGRATED SYSTEMS  
GMV GMV INNOVATING SOLUTIONS S.L.  
GNV GEONAV INTERNATIONAL  
GPI GLOBAL POSITIONING INSTRUMENT CORP.  
GPP GEO++ GmbH  
GPR GLOBAL POSITIONING SYSTEM JOINT PROGRAM OFFICE (ROCKWELL COLLINS)  
GRF GRAFINTA (SPAIN)  
GRM GARMIN CORPORATION  
GSC GOLD STAR COMPAPNY, LTD  
GTI GENESIS TECHNOLOGY INTERNATIONAL LTD  
GTO GRO ELECTRONICS  
GVE GUEST CORPORATION  
GVT GREAT VALLEY TECHNOLOGY

**GWA (61162-460 RESERVED FOR FUTURE USE)**

**GWR (61162-460 RESERVED FOR FUTURE USE)**

HAI HYDRAGRAPHIC ASSOCIATES, LTD  
HAL HAL COMMUNICATIONS CORP.  
HAR HARRIS CORPORATION  
HGN HEXAGON  
HHS HYDEL HELLAS SKALTSARIS LTD (SHANGHAI)  
HIG HY-GAIN  
HIL PHILIPS NAVIGATION A/S  
HIT HI-TEC  
HKR PHIDAN ENGINEERING  
HMS HYDE MARINE SYSTEMS, INC.  
HOM HOPPE MARINE GmbH  
HPK HEWLETT-PACKARD  
HRM **HEEL ANGLE, ROLL PERIOD AND ROLL AMPLITUDE MEASUREMENT DEVICE REPORT AND COMMAND**  
HRC HARCO MANUFACTURING CO.  
HRT HART SYSTEMS, INC.  
HTI HEART INTERFACE, INC.  
HTZ HERTZ SYSTEMS LTD SP.Z O.O  
HUL HULL ELECTRONICS COMPANY  
HWM HONEYWELL MARINE SYSTEMS  
  
IBM IBM MICROELECTRONICS  
ICO ICOM OF AMERICA, INC.  
ICG INITIATIVE COMPUTING USA, INC. INITIATIVE COMPUTING AG  
IDS ICAN MARINE (CANADA)  
IFD INTERNATIONAL FISHING DEVICES  
IFI INSTRUMENTS FOR INDUSTRY  
ILS IDEAL TEKNOLOJI BILISIM COZUMLERI A.S.  
IME IMPERIAL MARINE EQUIPMENT  
IMI INTERNATIONAL MARINE INSTRUMENTS

IMM ITT MACKAY MARINE  
IMP IMPULSE MANUFACTURING, INC.  
IMR IDEAL TECHNOLOGIES INC  
IMT INTERNATIONAL MARKETING AND TRADING, INC.  
INL INTELLIAN  
INM INMAR ELECTRONIC AND SALES  
INT INTECH, INC.  
IRT INTERA TECHNOLOGIES, LTD  
IST INNERSPACE TECHNOLOGY, INC.  
ITM INTERMARINE ELECTRONICS, INC.  
ITR ITERA, LTD  
IWW INLAND WATERWAYS (GERMANY)  
IXB IXBLUE  
IXS IXSEA

JAN JAN CRYSTALS  
JAS JASCO RESEARCH LTD.  
JFR RAY JEFFERSON  
JLD JARGOON LIMITED  
JMC JAPAN MARINA CO  
JMT JAPAN MARINE TELECOMMUNICATIONS  
JPI J.P. INSTRUMENTS  
JRC JAPAN RADIO COMPANY, LTD  
JRI J-R INDUSTRIES, INC.  
JVD JAVAD GNSS, INC.  
JTC J-TECH ASSOCIATES, INC.  
JTR JOTRON RADIOSEARCH, LTD

KBE KB ELECTRONICS, LTD  
KBM KENNEBEC MARINE COMPANY  
KEL KNUDSEN ENGINEERING, LTD  
KHU KELVIN HUGHES LTD  
KLA KLEIN ASSOCIATES, INC.  
KME KYUSHU MATSUSHITA ELECTRIC  
KML KONGSBERG MESOTECH LTD  
KMO KONGSBERG MARITIME AS  
KMR KING MARINE RADIO CORP.  
KMS KONGSBERG MARITIME SUBSEA  
KMU NATIONAL KOREA MARITIME UNIVERSITY  
KNC KONGSBERG NORCONTROLS  
KNG KING RADIO CORPORATION  
KOD KODEN ELECTRONICS CO., LTD  
KRA EDV KRAJKA  
KRP KRUPP INTERNATIONAL, INC.  
KST KONGSBERG SEATEX AS  
KVH KVH COMPANY  
KYI KYOCERA INTERNATIONAL, INC.

L3A L3 COMMUNICATIONS RECORDERS DIVISION  
LAT LATITUDE CORPORATION  
L3I L-3 INTERSTATE ELECTRONICS COPORATION  
LCI LASERCRAFT INC.  
LEC LORAIN ELECTRONICS CORP  
LEI LEICA GEOSYSTEMS PTY LTD

LIT LITTON LASER SYSTEMS  
LMM LAMARCHE MANUFACTURING CO.  
LRD LORAD  
LSE LITTLEMORE SCIENTIFIC ENG.  
LSP LASER PLOT, INC.  
LST LITE SYSTEMS ENGINEERING  
LTH LARS THRANE  
LTF LITTLEFUSE, INC.  
LTI LASER TECHNOLOGY, INC.  
LWR LOWRANCE ELECTRONICS CORP.

MCA CANADIAN MARCONI COMPANY  
MCI MATSUSHITA COMMUNICATIONS  
MCL MICROLOGIC, INC.  
MDL MEDALLION INSTRUMENTS, INC.  
MDS MARINE DATA SYSTEMS  
MEC MARINE ENGINE CENTER, INC.  
MEG MARITEC ENGINEERING GmbH.  
MES MARINE ELECTRONICS SERV. INC.  
MET METOCEAN TELEMATICS  
MEW MATSUSHITA ELECTRIC WORKS  
MET METOCEAN TELEMATICS  
MFR MODERN PRODUCTS, LTD  
MFW FRANK W. MURPHY MFG.  
MGN MAGELLEN SYSTEMS CORP.  
MGS MG ELECTRONIC SALES CORP.  
MIE MIECO, INC.  
MIK MIKROLAB, GmbH  
MIR MIROS AS  
MIM MARCONI INTERNATIONAL MARINE  
MLE MARTHA LAKE ELECTRONICS  
MLN MATLIN COMPANY  
MLP MARLIN PRODUCTS  
MLT MILLER TECHNOLOGIES  
MMB MARSH-MCBIRNEY, INC.  
MME MARKS MARINE ENGINEERING  
MMI MICROWAVE MONOLITHICS  
MMM MADMAN MARINE  
MMP METAL MARINE PILOT, INC.  
MMS MARS MARINE SYSTEMS  
MMT MICRO MODULAR TECHNOLOGIES  
MNI MICRO-NOW INSTRUMENT CO.  
MNT MARINE TECHNOLOGY  
MNX MARINEX  
MOT MOTOROLA COMMUNICATIONS & ELECTRONICS  
MPI MEGAPULSE, INC.  
MPN MEMPHIS NET AND TWINE CO.  
MQS MARQUIS INDUSTRIES, INC.  
MRC MARINECOMP, INC.  
MRE MORAD ELECTRONICS CORP.  
MRL MRC INC.  
MRP MOORING PRODUCTS OF NEW ENGLAND  
MRR II MORROW, INC.  
MRS MARINE RADIO SERVICE

MSB MITSUBISHI ELECTRIC CO., LTD  
MSF MICROSOFT CORPORATION  
MSE MASTER ELECTRONICS  
MSM MASTER MARINER, INC.  
MST MESOTECH SYSTEMS, LTD  
MSU MARITIME SOLENT UNIVERSITY  
MTA MARINE TECHNICAL ASSOCIATES  
MTD MARITEL DATA SERVICES  
MTG MARINE TECHNICAL ASSISTANCE GROUP  
MTI MOBILE TELESYSTEMS, INC.  
MTK MARTECH, INC.  
MTL MARINE TECHNOLOGIES LLC  
MTR MITRE CORPORATION, THE  
MTS METS, INC.  
MUR MURATA ERIE NORTH AMERICA  
MVX MAGNAVOX ADVANCED PRODUCTS AND SYSTEMS CO.  
MXS MAXSEA INTERNATIONAL  
MXX MAXXIMA MARINE  
MYS MARINE ELECTRONICS CO SOUTH KORIEA

NAB NABTESCO CORPORATION  
NAG NORIS AUTOMATION GmbH  
NAT NAUTECH, LTD  
NAU NAUTICCAST (AKA NAUTICALL)  
NAV NAVTEC, INCORPORATED  
NAS NAVANTIA, S.A., S.M.E  
NCG NAVCERT GMBH  
NCT NAVCOM TECHNOLOGY, INC  
NEC NEC CORPORATION  
NEF NEW ENGLAND FISHING GEAR  
NGC NORTHROP GRUMMAN MARITIME SYSTEMS  
NGS NAVIGATION SCIENCES, INC.  
NIX L-3 NAUTRONIX  
NLS NAVIGATION LIGHT STATUS (RESERVED FOR FUTURE USE)  
NMR NEWMAR  
NMX NANOMETRICS  
NOM NAV-COM, INC.  
NOR NORTECH SURVEYS (CANADA)  
NOS NORTHERN SOLUTIONS AS  
NOV NOVATEL COMMUNICATIONS, LTD  
NRT NORTEK GROUP  
NSC NEW SUNRISE CO., LTD  
NSI NOREGON SYSTEMS INC  
NSL NAVITRON SYSTEMS LTD  
NSM NORTHSTAR MARINE  
NTI NORTHSTAR TECHNOLOGIES, INC.  
NTK NOVATECH DESIGNS, LTD  
NTS NAVTECH SYSTEMS  
NUT NAUTITECH PTY, LTD  
NVC NAVICO  
NVG NVS TECHNOLOGIES AG  
NVL NAVELEC MARINE SYSTEMS S.L.  
NVM NAVIOM

NVO NAVIONICS, s.p.a.  
 NVS NAVSTAR  
 NVT NOVARIANT, INC  
 NWC NAVAL WARFARE CENTER  
 NWS NETWAVE SYSTEMS BV  
  
 OAR O.A.R. CORPORATION  
 OBS OBSERVATOR INSTRUMENTS  
 OCC OCCUPATION CONTROL (RESERVED FOR FUTURE USE)  
 OCE MSM OCEAN  
 OCS OMAHA COMMUNICATIONSSYSTEMS LLC  
 ODE OCEAN DATA EQUIPMENT CORP.  
 ODN ODIN ELECTRONICS, INC.  
 ODS OMAHA COMMUNICATIONS SYSTEMS LLC  
 OHB OHB SYSTEMS  
 OIN OCEAN INSTRUMENTS, INC.  
 OKI OKI ELECTRIC INDUSTRY CO.  
 OLY NAVSTAR, LTD (POLYTECHNIC ELECTRONICS)  
 OMN OMNETICS  
 OMT OMNITECH AS  
 ONE ONENAV  
 ONI OMSKIY NAUCHNO ISSLEDOVATELSKIY INSTITUT PRIBOROSTROENIYA (RUSSIA)  
 ORB ORBCOMM  
 ORE OCEAN RESEARCH  
 OSG OCEAN SIGNAL LTD  
 OSI OSI MARITIME SYSTEMS (was OFFSHORE SYSTEMS INTL)  
 OSL OSI MARITIME SYSTEMS (was OFFSHORE SYSTEMS, LTD.)  
 OSS OCEAN SOLUTION SYSTEMS  
 OTK OCEAN TECHNOLOGY  
  
 PES PORT ELECTRIC SOLUTIONS INC  
 PCE PACE  
 PCM P SEA MARINE SYSTEMS  
 PDC PAN DELTA CONTROLS LTD  
 PDM PRODELCO MARINE SYSTEMS  
 PGF PG FLOW SOLUTIONS AS  
 RHM RH MARINE  
 PLA PLATH,C.DIV OF LITTON  
 PLI PILOT INSTRUMENTS  
 PMI PERNICKA MARINE INSTRUMENTS  
 PMP PACIFIC MARINE PRODUCTS  
 PNI PNI SENSORS INC  
 PNL POINTS NORTH, LTD  
 POM POMS ENGINEERING  
 PPL PAMARINE PRIVATE LIMITED  
 PRK PERKO, INC.  
 PSM PEARCE-SIMPSON  
 PST POINTSTAR A/S  
 PTC PETRO-COM  
 PTG P.T.I./GUEST  
 PTH PATHCOM, INC.  
 PVS PLANEVISION SYSTEMS  
  
 QNQ QINETIQ

QRC QINETIQ  
 QTM QUECTEL WIRELESS SOLUTIONS  
 QWE QWERTY ELEKTRONIK AB  
 QZM (RESERVED FOR FUTURE USE)  
 QZSS (RESERVED FOR FUTURE USE)  
 Q2N QQN NAVIGATION ABS

RAC RACAL MARINE, INC.  
 RAE RCA ASTRO-ELECTRONICS  
 RAF ROBINS AIR FORCE (USAF)  
 RAK ROCKSON AUTOMATION, KIEL  
 RAY RAYTHEON MARINE COMPANY  
 RCA RCA SERVICE COMPANY  
 RCH ROACH ENGINEERING  
 RCI ROCHESTER INSTRUMENTS, INC.  
 RCQ QINETIQ  
 RDC USCG R&D CENTER  
 RDI RADAR DEVICES  
 RDM RAY-DAR MANUFACTURING CO.  
 REC ROSS ENGINEERING CO.  
 RFP ROLFITE PRODUCTS, INC.  
 RGC RCA GLOBAL COMMUNICATIONS  
 RGL RIEGL LASER MEASUREMENT SYSTEMS  
 RGY REGENCY ELECTRONICS, INC.  
 RHO RHOTHETA ELEKTRONIK GmbH  
 RLK REELEKTRONIKA.NL  
 RME RACAL MARINE ELECTRONICS  
 RMR RCA MISSILE AND RADAR  
 RSL ROSS LABORATORIES, INC.  
 RSM ROBERTSON-SHIPMATE, USA  
 RTH PARTHUS  
 RTN ROBERTSON TRITECH NYASKAIEN  
 RWC ROCKWELL COLLINS  
 RWI ROCKWELL INTERNATIONAL

S3S SEA3 SYSTEMS LLC  
 SAA SATRONIKA SL  
 SAB VDE SATELLITE SELECTIVE ADDRESSED BINARY AND SAFETY RELATED MESSAGE  
 (RESERVED FOR FUTURE USE)  
 SAG SAILORMADE Ltda  
 SAE STN ATLAS ELEKTRONIK GmbH  
 SAF SAFEMINE  
 SAI SAIT, INC.  
 SAJ SAJ INSTRUMENT AB  
 SAM SAM ELECTRONICS GmbH  
 SAL SAL NAVIGATION AB  
 SAP SYSTEMS ENGINEERING & ASSESSMENT, LTD  
 SAT SATLOC  
 SBB VDE SATELLITE BROADCAST BINARY MESSAGE (RESERVED FOR FUTURE USE)  
 SBG SBG SYSTEMS  
 SBR SEA-BIRD ELECTRONICS, INC.  
 SBB VDE SATELLITE BROADCAST (RESERVED FOR FUTURE USE)  
 SCC VDE SATELLITE CONFIGURATION COMMAND (RESERVED FOR FUTURE USE)  
 SCL SOKKIA COMPANY, LTD

SCM SCANDINAVIAN MICROSYSTEMS AS  
 SCO SIMOCO TELECOMMUNICATIONS LTD  
 SCR SIGNALCRAFTERS, INC.  
 SDM VDE SATELLITE VHF DATA-LINK MESSAGE (RESERVED FOR FUTURE USE)  
 SDN SAPIEN DESIGN  
 SDO VDE SATELLITE VHF DATA-LINK OWN-VESSEL REPORT (RESERVED FOR FUTURE USE)  
 SEA SEA, INC.  
 SEC SERCEL ELECTRONICS OF CANADA  
 SEE SEETRAC AKA GLOBAL MARINE TRACKING  
 SEL SELECTION REPORT (RESERVED FOR FUTURE USE)  
 SEM SEMTECH LTD  
 SEP STEEL AND ENGINE PRODUCTS  
 SER SERCEL FRANCE  
 SFN SEAFARER NAVIGATION INT'L.  
 SGB VDE SATELLITE GEOGRAPHICAL ADDRESSED BINARY AND SAFETY MESSAGE  
 (RESERVED FOR FUTURE USE)  
 SGC SGC, INC.  
 SGN SIGNAV  
 SHI SHINE MICRO  
 SIG SIGNET, INC.  
 SIM SIMRAD, INC  
 SKA SKANTEK CORPORATION  
 SKP SKIPPER ELECTRONICS A/S  
 SLI STARLINK INCORPORATED  
 SLM STEERING LOCATION MODE (RESERVED FOR FUTURE USE)  
 SMC SOLIS MARINE CONSULTANTS  
 SMD SHIPMODUL CUSTOMWARE  
 SME SHAKESPEARE MARINE ELECTRONICS  
 SMF SEATTLE MARINE AND FISHING SUPPLY CO.  
 SMI SPERRY MARINE, INC.  
 SMK VDE SATELLITE ADDRESSED AND BROADCAST MESSAGE AKNOWEGMENT  
 (RESERVED FOR FUTURE USE)  
 SML SIMERL INSTRUMENTS  
 SMT SRT-MARINE  
 SMV SAFETYNET MESSAGE VESSEL (RESERVED FOR FUTURE USE)  
 SNP SCIENCE APPLICATIONS INTERNATIONAL CORP  
 SNS SAINSEL  
 SNV STARNAV CORPORATION  
 SNY SONY CORPORATION – MOBILE ELECTRONICS  
 SOM SOUND MARINE ELECTRONICS  
 SON SONARDYNE INTERNATIONAL LTD  
 SOV SELL OVERSEAS AMERICA  
 SPL SPELMAR  
 SPT SOUND POWERED TELEPHONE  
 SRC STELLAR RESEARCH GROUP  
 SRD SRD LABS  
 SRP SYSTEM FUNCTION ID RESOLUTION PROTOCOL (RESERVED FOR FUTURE USE)  
 SRF SIRF TECHNOLOGY, INC.  
 SRS SCIENTIFIC RADIO SYSTEMS, INC.  
 SRT STANDARD RADIO AND TELEFON  
 SRV (RESERVED FOR FUTURE USE)  
 SSC SWEDISH SPACE CORPORATION  
 SSA (RESERVED FOR FUTURE USE)  
 SSD SAAB AB, SECURITY & DEFENSE SOLUTIONS, COMMAND AND CONTROL SYSTEMS

	DIVISION
SSE	SEVEN STAR ELECTRONICS
SSG	VDE SATELLITE CONFIGURATION STATUS- GENERAL (RESERVED FOR FUTURE USE)
SSI	SEA SCOUT INDUSTRIES
SSN	SEPTENTRIO
STC	STANDARD COMMUNICATIONS
STI	SEA-TEMP INSTRUMENT CORP.
STK	SEATECHNIK
STL	STREAMLINE TECHNOLOGY, LTD
STM	SI-TEX MARINE ELECTRONICS
STO	STOWE MARINE ELECTRONICS
STT	SAAB TRANSPONDERTECH AB
SUK	VDE SATELITE MESSAGE SENTENCE ACKNOWLEDGE MESSAGE
SUM	VDE SATILLITE UPLINK
SVY	SAVOY ELECTRONICS
SWI	SWOFFER MARINE INSTRUMENTS
SWT	SWIFT NAVIGATION, INC
SYE	SAMYUNG ENC CO.,LTD
SYN	SYNERGY SYSTEMS, LLC
TAB	VDE TERRESTRIAL SELECTIVE ADDRESSED BINARY AND SAFETY RELATED MESSAGE (RESERVED FOR FUTURE USE)
TBB	THOMPSON BROTHERS BOAT MFG.
TDB	TERRESTRIAL BINARY DATA
TBG	TAG BLOCK GROUPING STATUS AND COMMAND (RESERVED FOR FUTURE SENTENCE)
TBM	VDE TERRESTRIAL BROADCAST BINARY MESSAGE (RESERVED FOR FUTURE USE)
TCC	VDE TERRESTRIAL CONFIGURATION COMMAND (RESERVED FOR FUTURE USE)
TCN	TRADE COMMISSION OF NORWAY
TDI	TELEDYNE RD INSTRUMENTS
TDL	TIDELAND SIGNAL
TDM	VDE TERRESTRIAL VHF DATA-LINK MESSAGE (RESERVED FOR FUTURE USE)
TDO	VDE TERRESTRIAL VHF DATA-LINK OWN-VESSEL REPORT (RESERVED FOR FUTURE USE)
TEL	PLESSEY TELLUMAT
TES	THALES ELECTRONIC SYSTEMS, GmbH
TGB	VDE TERRESTRIAL GEOGRAPHICAL ADDRESSED BINARY AND SAFETY MESSAGE (RESERVED FOR FUTURE USE)
TME	TME SOLUTIONS CO LTD
THL	TECHNOLEADER SRL
THR	THRANE AND THRANE A/A
TKI	TOKYO KEIKI INC
TLS	TELESYSTEMS
TMK	VDE TERRESTRIAL ADDRESSED AND BROADCAST MESSAGE AKNOWEGMENT (RESERVED FOR FUTURE USE)
TMS	TRELLEBORG MARINE SYSTEMS
TMT	TAMTECH, LTD
TNL	TRIMBLE NAVIGATION
TOP	TOPCON POSITIONING SYSTEMS, INC.
TPL	TOTEM PLUS LTD.
TRC	TRACOR, INC.
TRS	TRAVROUTE SOFTWARE
TSG	(RESERVED FOR FUTURE USE)
TSI	TECHSONIC INDUSTRIES, INC.

TSS TELEDYNE TSS LIMITED  
TTK TALON TECHNOLOGY CORP.  
TTS TRANSTECTOR SYSTEMS  
TYC VINCOTECH (FORMERLY TYCO ELECTRONICS)  
TWC TRANSWORLD COMMUNICATIONS  
TWS TELIT LOCATION SOLUTIONS a division of TELIT WIRELESS SOLUTIONS  
TXI TEXAS INSTRUMENTS, INC.

UBX U-BLOX AG  
UCG UNITED STATES COAST GUARD  
UEL ULTRA ELECTRONICS LTD  
UIT UNICTRON TECHNOLOGIES CORP  
UME UMEC  
UNF UNIFORCE ELECTRONICS CO.  
UNI UNIDEN CORP. OF AMERICA  
UNP UNIPAS, INC.  
URS URSANAV, INC

VAN VANNER, INC.  
VAR VARIAN EIMAC ASSOCIATES  
VBC DOCKING SPEED LOG (RESERVED FOR FUTURE USE)  
VDB BERTOLD VANDENBERGH  
VCM VIDEOCOM  
VEA VARD ELECTRO AS  
VEC VECTRON INTERNATIONAL  
VEX VEXILAR  
VIS VESSEL INFORMATION SYSTEMS  
VIT VITAL BATTERY  
VMR VAST MARKETING CORP  
VNT VECTORNAV TECHNOLOGIES  
VSP VESPER MARINE  
VXS VERTEX STANDARD

WAI WAIV TECHNOLOGIES  
WAL WALPORT U.S.A.  
WBE WAMBLEE S.R.L.  
WBG WESTBERG MANUFACTURING,  
WBR WESBAR CORPORATION  
WEC WESTINGHOUSE ELECTRIC CORP.

WEI WEIDMUELLER INTERFACE GMBH  
WEG WEGMATT LLC  
WCI WI-SYS COMMUNICATIONS  
WDC WEATHERDOCK CORP  
WGT WILLGOOD TECHNOLOGY OGMBH  
WHA W-H AUTOPILOTS  
WMM WAIT MANUFACTURING AND MARINE SALES CO.  
WMR WESMAR ELECTRONICS  
WNG WINEGARD COMPANY  
WOE WOOSUNG ENGINEERING CO LTD  
WSE WILSON ELECTRONICS CORP.  
WST WEST ELECTRONICS LIMITED  
WTC WATERCOM

XEL 3XEL SRL  
XIN XINUO INFORMATION TECHNOLOGY (XIAMEN) CORPORATION LIMITED  
  
YAS YAESU ELECTRONICS  
YDK YOKOGAWA DENSHIKIKI CO. LTD  
YSP FUJIAN YSP ELECTRONIC TECHNOLOGY CO.,LTD  
YSH STANDARD HORIZON YAESU  
  
ZNS ZINNOS