

NMEA 0183
All Identifiers
Manufacturer Mnemonic Codes, and Sentence Formatters List
August 1, 2013

0183	DESCRIPTION
Identifier	
3SN	3-S NAVIGATION
AAM	WAYPOINT ARRIVAL ALARM
AAR	ASIAN AMERICAN RESOURCES
ABK	AIS ADDRESSED AND BINARY BROADCAST ACKNOWLEDGEMENT
ABM	AIS ADDRESSED BINARY AND SAFETY RELATED MESSAGE.
ACA	AIS REGIONAL CHANNEL ASSIGNMENT MESSAGE
ACE	AUTO-COMM ENGINEERING CORP.
ACF	GENERAL ATON STATION CONFIGURATION COMMAND
ACG	EXTENDED GENERAL ATON STATION CONFIGURATION COMMAND
ACK	ACKNOWLEDGE ALARM
ACM	AIS BASE STATION ADDRESSED CHANNEL MANAGEMENT COMMAND
ACR	ACR ELECTRONICS, INC.
ACS	ARCO SOLAR, INC.
ACS	AIS CHANNEL MANAGEMENT INFORMATION SOURCE
ACT	ADVANCED CONTROL TECHNOLOGY
ADI	ADITEL
ADN	AD NAVIGATION
ADS	AUTOMATIC DEVICE STATUS
AFB	ATON FORCED BROADCAST COMMAND
AGA	AIS BASE STATION BROADCAST OF A GROUP ASSIGNMENT COMMAND
AGI	AIRGUIDE INSTRUMENT CO.
AHA	AUTOHELM OF AMERICA
AID	ATON IDENTIFICATION CONFIGURATION COMMAND
AIP	AIPHONE CORP.
AIR	AIS INTERROGATION REQUEST
AKD	ACKNOWLEDGE DETAIL ALARM CONDITION
ALA	SET DETAIL ALARM CONDITION
ALD	ALDEN ELECTRONICS, INC.
ALM	GPS ALMANAC DATA
ALR	SET ALARM STATE
ALR	SET ALARM STATE
AMC	ALLTEK MARINE ELECTRONICS CORP.
AMI	ADVANCED MARINE INSTRUMENTATION, LTD.
AMR	AMR SYSTEMS
AMT	AIRMAR TECHNOLOGY

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0183 Identifier	DESCRIPTION
AND	ANDREW CORPORATION
ANI	AUTONAUTICAL INSTRUMENTAL S.L.
ANS	ANTENNA SPECIALISTS
ANX	ANALYTYX ELECTRONIC SYSTEMS
ANZ	ANSCHUTZ OF AMERICA
AOB	AEROBYTES LTD
APA	DEPRECATED NOT FOR NEW DESIGNS AUTOPILOT SENTENCE "A"
APC	APELCO
APN	AMERICAN PIONEER, INC.
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
ASH	ASHTECH
ASN	AIS BASE STATION BROADCAST OF ASSIGNMENT COMMAND
ASP	AMERICAN SOLAR POWER
ATC	ADVANCED C TECHNOLOGY, LTD
ATE	AETNA ENGINEERING
ATM	ATLANTIC MARKETING COMPANY
ATR	AIRTRON
ATV	ACTIVATION, INC.
AVN	ADVANCED NAVIGATION, INC.
AWA	AWA NEW ZEALAND, LTD.
AXN	AXIOM NAVIGATION, INC.
BBG	BBG INCORPORATED
BBL	BBL INDUSTRIES, INC.
BBM	AIS BROADCAST BINARY MESSAGE.
BBR	BBR AND ASSOCIATES
BCG	BASE STATION CONFIGURATION, GENERAL COMMAND
BCL	BASE STATION CONFIGURATION, LOCATION COMMAND
BDV	BRISSON DEVELOPMENT, INC.
BEC	BOAT ELECTRIC CO.

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0183		DESCRIPTION
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BEC		BEARING & DISTANCE TO WAYPOINT – DEAD RECKONING
BER	DEPRECATED NOT FOR NEW DESIGNS	BEARING & DISTANCE TO WAYPOINT, DEAD RECKONING, RHUMB LINE
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		BOSCH REXROTH AG MARINE TECHNIQUE
BNI		NEIL BROWN INST. SYSTEMS
BNS		BOWDITCH NAVIGATION SYSTEMS
BOD		BEARING - ORIGIN TO DESTINATION
BPI	DEPRECATED NOT FOR NEW DESIGNS	BEARING & DISTANCE TO POINT OF INTEREST
BRM		MEL BARR COMPANY
BRO		BROADGATE, LTD
BRY		BYRD INDUSTRIES
BTH		BENTHOS, INC.
BTK		BALTEK CORP.
BTS		BOAT SENTRY, INC.
BVE		BV ENGINEERING
BWC		BEARING & DISTANCE TO WAYPOINT – GREAT CIRCLE
BWR		BEARING & DISTANCE TO WAYPOINT – RHUMB LINE
BWW		BEARING – WAYPOINT TO WAYPOINT
BXA		BENDIX-AVALEX, INC.
CAI		CAMBRIDGE AERO INSTRUMENTS
CAT		CATEL
CBN		CYBERNET MARINE PRODUCTS
CBR		CONFIGURE BROADCAST RATES FOR AIS ATON STATION MESSAGE COMMAND.
CCA		COPAL CORP OF AMERICA
CCC		COASTEL COMMUNICATIONS CO.

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0183	Identifier	DESCRIPTION
	CCL	COASTAL CLIMATE COMPANY
	CCM	COASTAL COMMUNICATIONS
	CDC	CORDIC COMPANY
	CDI	CHETCO DIGITAL INSTRUMENTS
	CDL	CDLTD INC
	CEC	CECO COMMUNICATONS, INC.
	CEI	CAMBRIDGE ENGINEERING, INC.
	CEK	CONFIGURE ENCRYPTION KEY COMMAND
	CHI	CHARLES INDUSTRIES, LTD.
	CIN	CANADIAN AUTOMOTIVE INSTRUMENTS
	CKM	CINKEL MARINE ELECTRONICS
	CMA	SOC. NOUVELLE D'EQUIP. CALVADOS
	CMC	COE MANUFACTURING CO.
	CME	CUSHMAN ELECTRONICS, INC.
	CML	CML MICROSYSTEMS, PLC
	CMN	COMNAV MARINE, LTD.
	CMP	C-MAP, S.R.L.
	CMS	COASTAL MARINE SALES CO.
	CMV	COURSEMASTER USA, INC.
	CNI	CONTINENTAL INSTRUMENTS
	CNS	C.N.S. SYSTEMS AB
	CNV	COASTAL NAVIGATOR
	CNX	CYNEX MANUFACTURING CO.
	COP	CONFIGURE THE OPERATIONAL PERIOD, COMMAND
	CPC	CONFIGURE PARAMETER-CODE FOR UNIX TIME PARAMETER (C)
	CPD	CONFIGURE PARAMETER-CODE FOR DESTINATION-IDENTIFICATION PARAMETER (D)
	CPG	CONFIGURE PARAMETER-CODE FOR THE SENTENCE-GROUPING PARAMETER (G)
	CPL	COMPUTROL, INC.
	CPN	COMPUNAV
	CPN	CONFIGURE PARAMETER-CODE FOR THE LINE-COUNT PARAMETER (N)
	CPR	CONFIGURE PARAMETER-CODE FOR RELATIVE (EPOCH / EVENT) TIME PARAMETER (R)
	CPS	COLUMBUS POSITIONING, LTD
	CPS	CONFIGURE PARAMETER-CODE FOR THE SOURCE-IDENTIFICATION PARAMETER(S)
	CPT	CPT, INC.
	CPT	CONFIGURE PARAMETER-CODE FOR A TEXT-STRING PARAMETER (T)

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0183 Identifier	DESCRIPTION
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.
CTS	C-TECH SYSTEMS
CUR	WATER CURRENT LAYER
CUS	CUSTOMWARE
CWD	CUBIC WESTERN DATA
CWV	CELWAVE R.F., INC.
CYZ	CYZ, INCORPORATED
DAS	DASSAULT SERCEL NAVIGATION-POSITIONING
DBK	DEPRECATED NOT FOR NEW DESIGNS DEPTH BELOW KEEL
DBM	DEEP BLUE MARINE
DBS	DEPRECATED NOT FOR NEW DESIGNS DEPTH BELOW SURFACE
DBT	DEPTH BELOW TRANSDUCER
DCC	DOLPHIN COMPONENTS CORP.
DCN	DECCA POSITION
DCN	DEPRECATED NOT FOR NEW DESIGNS DECCA POSITION
DCR	DEVICE CAPABILITY REPORT
DDC	DISPLAY DIMMING CONTROL
DEB	DEBEG GMBH
DEC	DECCA DIVISION, LITTON MARINE SYSTEMS, BV
DFI	DEFENDER INDUSTRIES, INC.
DGC	DIGICOURSE, INC.
DGY	DIGITAL YACHT LTD

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DLM	DATA LINK MANAGEMENT SLOT ALLOCATIONS FOR BASE STATION COMMAND
DME	DELORME
DMI	DATAMARINE INTERNATIONAL
DNS	DORNIER SYSTEM GMBH
DNT	DEL NORTE TECHNOLOGY, INC.
DOI	DIGITAL OCEANS INC.
DOR	DOOR STATUS DETECTION
DPS	DANAPLUS, INC.
DPT	DEPTH
DRL	R.L.DRAKE COMPANY
DRU	DEPRECATED NOT FOR NEW DESIGNS DUAL DOPPLER AUXILIARY DATA
DSC	DYNASCAN CORP.
DSC	DIGITAL SELECTIVE CALLING INFORMATION
DSE	EXPANDED DIGITAL SELECTIVE CALLING
DSI	DSC TRANSPONDER INITIALIZE
DSR	DSC TRANSPONDER RESPONSE
DTM	DATUM REFERENCE
DTN	DYTECHNA, LTD
DYN	DYNAMOTE CORPORATION
DYT	DYTEK LABORATORIES, INC.
EAN	EURO AVIONICS NAVIGATIONSSYSTEME GMBH
EBC	EMERGENCY BEACON CORP.
ECB	CONFIGURE BROADCAST SCHEDULES FOR BASE STATION MESSAGES, COMMAND
ECT	ECHOTEC, INC.
EDO	EDO CORPORATION ELECTROACOUSTICS DIV.
EEV	EEV, INC.
EFC	EFCOM COMMUNICATION SYSTEMS
EKC	EASTMAN KODAK
ELA	ALLIED SIGNAL ELAC NAUTIK
ELD	ELECTRONIC DEVICES, INC.
ELM	ELMAN S.R.L
EMC	ELECTRIC MOTION COMPANY
EMS	ELECTRO MARINE SYSTEMS, INC.
ENA	ENERGY ANALYSTS, INC.
ENC	ENCRON, INC.

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0183 Identifier	DESCRIPTION
EPM	EPSCO MARINE
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
ETL	ENGINE TELEGRAPH OPERATION STATUS
EVE	GENERAL EVENT MESSAGE
FDN	FLUIDDYNE
FEC	FURUNO ELECTRIC CO.
FHE	FISH HAWK ELECTRONICS
FIR	FIRE DETECTION
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
FSI	FREQUENCY SET STATUS OR COMMAND
FSR	FRAME SUMMARY OF AIS RECEPTION
FST	FASTRAX OY
FTG	T.G.FARIA CORPORATION
FUJ	FUJITSU TEN CORPORATION OF AMERICA
FUR	FURUNO USA, INC.
FWG	FORSCHUNGSBEREICH, WASSERCHALL AND GEOPHYSIK WTD 71
GAM	GRE AMERICA, INC.
GBS	GNSS SATELLITE FAULT DETECTION
GCA	GULF CELLULAR ASSOCIATES
GDA	DEPRECATED NOT FOR NEW DESIGNS DEAD RECKONING POSITIONS
GEC	GEC PLESSEY SEMICONDUCTORS
GEN	GENERIC BINARY INFORMATION
GES	GEOSTAR CORPORATION
GFC	GRAPHIC CONTROLS, CORP.

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0183 Identifier	DESCRIPTION
GFV	GFV MARINE LTD.
GGA	GLOBAL POSITIONING SYSTEM FIX DATA
GIS	GALAX INTEGRATED SYSTEMS
GLA	DEPRECATED NOT FOR NEW DESIGNS LORAN-C POSITIONS
GLC	GEOGRAPHIC POSITION – LORAN-C
GLL	GEOGRAPHIC POSITION – LATITUDE/LONGITUDE
GMP	GNSS MAP PROJECTION FIX DATA
GNS	GNSS FIX DATA
GNV	GEONAV INTERNATIONAL
GOA	DEPRECATED NOT FOR NEW DESIGNS OMEGA POSITIONS
GPI	GLOBAL POSITIONING INSTRUMENT CORP.
GPP	GEO++ GMBH
GPR	GLOBAL POSITIONING SYSTEM JOINT PROGRAM OFFICE (ROCKWELL COLLINS)
GRF	GRAFINTA (SPAIN)
GRM	GARMIN CORPORATION
GRS	GNSS RANGE RESIDUALS
GSA	GNSS DOP AND ACTIVE SATELLITES
GSC	GOLD STAR COMPAPNY, LTD
GST	GNSS PSEUDORANGE ERROR STATISTICS
GSV	GNSS SATELLITES IN VIEW
GTD	DEPRECATED NOT FOR NEW DESIGNS GEOGRAPHICAL POSITION, LORAN-C TDS
GTI	GENESIS TECHNOLOGY INTERNATIONAL LTD
GTO	GRO ELECTRONICS
GVE	GUEST CORPORATION
GVT	GREAT VALLEY TECHNOLOGY
GXA	DEPRECATED NOT FOR NEW DESIGNS TRANSIT POSITIONS
HAI	HYDRAGRAPHIC ASSOCIATES, LTD
HAL	HAL COMMUNICATIONS CORP.
HAR	HARRIS CORPORATION
HCC	DEPRECATED NOT FOR NEW DESIGNS COMPASS HEADING
HCD	DEPRECATED NOT FOR NEW DESIGNS HEADING AND DEVIATION
HDG	HEADING, DEVIATION & VARIATION
HDM	DEPRECATED NOT FOR NEW DESIGNS HEADING, MAGNETIC
HDT	HEADING, TRUE
HDT	DEPRECATED NOT FOR NEW DESIGNS HEADING, TRUE

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0183 Identifier	DESCRIPTION
HHS	HYDEL HELLAS SKALTSARIS LTD (SHANGHAI)
HIG	HY-GAIN
HIL	PHILIPS NAVIGATION A/S
HIT	HI-TEC
HMR	HEADING MONITOR RECEIVE
HMS	HYDE MARINE SYSTEMS, INC.
HMS	HEADING MONITOR SET
HPK	HEWLETT-PACKARD
HRC	HARCO MANUFACTURING CO.
HRT	HART SYSTEMS, INC.
HSC	HEADING STEERING COMMAND
HSS	HULL STRESS SURVEILLANCE SYSTEMS
HTC	HEADING/TRACK CONTROL COMMAND
HTD	HEADING/TRACK CONTROL DATA
HTI	HEART INTERFACE, INC.
HUL	HULL ELECTRONICS COMPANY
HVD	DEPRECATED NOT FOR NEW DESIGNS MAGNETIC VARIATION, AUTOMATIC
HVM	DEPRECATED NOT FOR NEW DESIGNS MAGNETIC VARIATION, AUTOMATIC
HWM	HONEYWELL MARINE SYSTEMS
IBM	IBM MICROELECTRONICS
ICG	INITIATIVE COMPUTING USA, INC. INITIATIVE COMPUTING AG
ICO	ICOM OF AMERICA, INC.
IDS	ICAN MARINE (CANADA)
IFD	INTERNATIONAL FISHING DEVICES
IFI	INSTRUMENTS FOR INDUSTRY
IMA	DEPRECATED NOT FOR NEW DESIGNS VESSEL IDENTIFICATION
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.
INM	INMAR ELECTRONIC AND SALES
INT	INTECH, INC.
IRT	INTERA TECHNOLOGIES, LTD

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0183 Identifier	DESCRIPTION
IST	INNERSPACE TECHNOLOGY, INC.
ITM	INTERMARINE ELECTRONICS, INC.
ITR	ITERA, LTD
IWW	INLAND WATERWAYS (GERMANY)
JAN	JAN CRYSTALS
JAS	JASCO RESEARCH LTD.
JFR	RAY JEFFERSON
JMT	JAPAN MARINE TELECOMMUNICATIONS
JPI	J.P. INSTRUMENTS
JRC	JAPAN RADIO COMPANY, LTD
JRI	J-R INDUSTRIES, 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
KMR	KING MARINE RADIO CORP.
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
L3I	L-3 INTERSTATE ELECTRONICS COPORATION
LAT	LATITUDE CORPORATION
LCD	LORAN-C SIGNAL DATA
LCI	LASERCRAFT INC.
LEC	LORAIN ELECTRONICS CORP

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0183 Identifier	DESCRIPTION
LEI	LEICA GEOSYSTEMS PTY LTD.
LIT	LITTON LASER SYSTEMS
LMM	LAMARCHE MANUFACTURING CO.
LR1	AIS LONG-RANGE REPLY SENTENCE 1
LR2	AIS LONG-RANGE REPLY SENTENCE 2
LR3	AIS LONG-RANGE REPLY SENTENCE 3
LRD	LORAD
LRF	AIS LONG-RANGE FUNCTION
LRI	AIS LONG-RANGE INTERROGATION
LSE	LITTLEMORE SCIENTIFIC ENG.
LSP	LASER PLOT, INC.
LST	LITE SYSTEMS ENGINEERING
LTF	LITTLEFUSE, INC.
LTJ	LASER TECHNOLOGY, INC.
LWR	LOWRANCE ELECTRONICS CORP.
MCA	CANADIAN MARCONI COMPANY
MCI	MATSUSHITA COMMUNICATIONS
MCL	MICROLOGIC, INC.
MDA	DEPRECATED NOT FOR NEW DESIGNS METEOROLOGICAL COMPOSITE
MDL	MEDALLION INSTRUMENTS, INC.
MDS	MARINE DATA SYSTEMS
MEB	MESSAGE INPUT FOR BROADCAST, COMMAND
MEC	MARINE ENGINE CENTER, INC.
MEG	MARITEC ENGINEERING G.M.B.H.
MES	MARINE ELECTRONICS SERV. INC.
MEW	MATSUSHITA ELECTRIC WORKS
MFR	MODERN PRODUCTS, LTD
MFW	FRANK W. MURPHY MFG.
MGN	MAGELLEN SYSTEMS CORP.
MGS	MG ELECTRONIC SALES CORP.
MHU	DEPRECATED NOT FOR NEW DESIGNS HUMIDITY
MHW	DEPRECATED NOT FOR NEW DESIGNS WAVE HEIGHT
MIE	MIECO, INC.
MIM	MARCONI INTERNATIONAL MARINE
MLA	GLONASS ALMANAC DATA

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0183 Identifier	DESCRIPTION
MLE	MARTHA LAKE ELECTRONICS
MLN	MATLIN COMPANY
MLP	MARLIN PRODUCTS
MLT	MILLER TECHNOLOGIES
MMB	MARSH-MCBIRNEY, INC.
MMB	DEPRECATED NOT FOR NEW DESIGNS BAROMETER
MME	MARKS MARINE ENGINEERING
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.
MRP	MOORING PRODUCTS OF NEW ENGLAND
MRR	II MORROW, INC.
MRS	MARINE RADIO SERVICE
MSB	MITSUBISHI ELECTRIC CO., LTD
MSE	MASTER ELECTRONICS
MSF	MICROSOFT CORPORATION
MSK-	MSK RECEIVER INTERFACE COMMAND
MSM	MASTER MARINER, INC.
MSS	MSK RECEIVER SIGNAL
MST	MESOTECH SYSTEMS, LTD
MTA	MARINE TECHNICAL ASSOCIATES
MTA	DEPRECATED NOT FOR NEW DESIGNS AIR TEMPERATURE
MTD	MARITEL DATA SERVICES
MTG	MARINE TECHNICAL ASSISTANCE GROUP
MTI	MOBILE TELESYSTEMS, INC.
MTK	MARTECH, INC.

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MTR	MITRE CORPORATION, THE
MTS	METS, INC.
MTW	WATER TEMPERATURE
MUR	MURATA ERIE NORTH AMERICA
MVX	MAGNAVOX ADVANCED PRODUCTS AND SYSTEMS CO.
MWD	WIND DIRECTION & SPEED
MWS	DEPRECATED NOT FOR NEW DESIGNS WIND & SEA STATE
MWV	WIND SPEED & ANGLE
MXS	MAXSEA INTERNATIONAL
MXX	MAXXIMA MARINE
NAK	NEGATIVE ACKNOWLEDGEMENT
NAT	NAUTECH, LTD
NAU	NAUTICALL
NAV	NAVTEC, INCORPORATED
NCT	NAVCOM TECHNOLOGY, INC.
NEF	NEW ENGLAND FISHING GEAR
NGS	NAVIGATION SCIENCES, INC.
NIX	L-3 NAUTRONIX
NMR	NEWMAR
NOM	NAV-COM, INC.
NOR	NORTECH SURVEYS (CANADA)
NOV	NOVATEL COMMUNICATIONS, LTD
NRM	NAVTEX RECEIVER MASK COMMAND
NRX	NAVTEX RECEIVED MESSAGE
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
NVO	NAVIONICS, S.P.A.
NVS	NAVSTAR

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NVT	NOVARIANT, INC
NWC	NAVAL WARFARE CENTER
OAR	O.A.R. CORPORATION
OBS	OBSERVATOR INSTRUMENTS
ODE	OCEAN DATA EQUIPMENT CORP.
ODN	ODIN ELECTRONICS, INC.
OHB	OHB SYSTEMS
OIN	OCEAN INSTRUMENTS, INC.
OKI	OKI ELECTRIC INDUSTRY CO.
OLN	DEPRECATED NOT FOR NEW DESIGNS OMEGA LANE NUMBERS
OLW	DEPRECATED NOT FOR NEW DESIGNS OMEGA LANE WIDTH
OLY	NAVSTAR, LTD (POLYTECHNIC ELECTRONICS)
OMN	OMNETICS
OMP	DEPRECATED NOT FOR NEW DESIGNS OMEGA
OMT	OMNITECH AS
ONZ	DEPRECATED NOT FOR NEW DESIGNS OMEGA ZONE NUMBER
ORB	ORBCOMM
ORE	OCEAN RESEARCH
OSD	OWN SHIP DATA
OSI	OFFSHORE SYSTEMS INTL.
OSL	OFFSHORE SYSTEMS, LTD.
OTK	OCEAN TECHNOLOGY
PCE	PACE
PCM	P SEA MARINE SYSTEMS
PDM	PRODELCO MARINE SYSTEMS
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
POS	DEVICE POSITION AND SHIP DIMENSIONS REPORT OR CONFIGURATION COMMAND.
PPL	PAMARINE PRIVATE LIMITED
PRC	PROPULSION REMOTE CONTROL STATUS
PRK	PERKO, INC.

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PSM	PEARCE-SIMPSON
PST	POINTSTAR A/S
PTC	PETRO-COM
PTG	P.T.I./GUEST
PTH	PATHCOM, INC.
Q2N	QQN NAVIGATION AB
QWE	QWERTY ELEKTRONIK AB
RAC	RACAL MARINE, INC.
RAE	RCA ASTRO-ELECTRONICS
RAF	ROBINS AIR FORCE (USAF)
RAY	RAYTHEON MARINE COMPANY
RCA	RCA SERVICE COMPANY
RCH	ROACH ENGINEERING
RCI	ROCHESTER INSTRUMENTS, INC.
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
RMA	RECOMMENDED MINIMUM SPECIFIC LORAN-C DATA
RMB	RECOMMENDED MINIMUM NAVIGATION INFORMATION
RMC	RECOMMENDED MINIMUM SPECIFIC GNSS DATA
RME	RACAL MARINE ELECTRONICS
RMR	RCA MISSILE AND RADAR
RNN	DEPRECATED NOT FOR NEW DESIGNS
ROR	ROUTES
ROT	RUDDER ORDER STATUS
RPM	RATE OF TURN
RSA	REVOLUTIONS
RSD	RUDDER SENSOR ANGLE
	RADAR SYSTEM DATA

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0183 Identifier	DESCRIPTION
RSL	ROSS LABORATORIES, INC.
RSM	ROBERTSON-SHIPMATE, USA
RST	EQUIPMENT RESET COMMAND
RTE	ROUTES RTE – ROUTES
RTH	PARTHUS
RTN	ROBERTSON TRITECH NYASKAIEN
RWC	ROCKWELL COLLINS
RWI	ROCKWELL INTERNATIONAL
SAA	SATRONIKA SL
SAE	STN ATLAS ELEKTRONIC GMBH
SAF	SAFEMINE
SAI	SAIT, INC.
SAJ	SAJ INSTRUMENT AB
SAL	CONSILIUM MARINE AB
SAM	SAM ELECTRONICS GMBH
SAP	SYSTEMS ENGINEERING & ASSESSMENT, LTD
SAT	SATLOC
SBK	DEPRECATED NOT FOR NEW DESIGNS LORAN-C BLINK STATUS
SBR	SEA-BIRD ELECTRONICS, INC.
SCD	DEPRECATED NOT FOR NEW DESIGNS LORAN-C ECDS
SCL	SOKKIA COMPANY, LTD
SCM	SCANDINAVIAN MICROSYSTEMS AS
SCO	SIMOCO TELECOMMUNICATIONS LTD
SCR	SIGNALCRAFTERS, INC.
SCY	DEPRECATED NOT FOR NEW DESIGNS LORAN-C CYCLE LOCK STATUS
SDB	DEPRECATED NOT FOR NEW DESIGNS LORAN-C SIGNAL STRENGTH
SDN	SAPIEN DESIGN
SEA	SEA, INC.
SEC	SERCEL ELECTRONICS OF CANADA
SEE	SEETRAC AKA GLOBAL MARINE TRACKING
SEM	SEMTECH LTD
SEP	STEEL AND ENGINE PRODUCTS
SER	SERCEL FRANCE
SFI	SCANNING FREQUENCY INFORMATION STATUS AND COMMAND
SFN	SEAFARER NAVIGATION INT'L,

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0183 Identifier	DESCRIPTION
SGC	SGC, INC.
SGD	DEPRECATED NOT FOR NEW DESIGNS POSITION ACCURACY ESTIMATE
SGN	SIGNAV
SGR	DEPRECATED NOT FOR NEW DESIGNS LORAN-C CHAIN IDENTIFIER
SHI	SHINE MICRO
SID	SET AN EQUIPMENT'S IDENTIFICATION AND COMMAND
SIG	SIGNET, INC.
SIM	SIMRAD, INC
SIU	DEPRECATED NOT FOR NEW DESIGNS LORAN-C STATIONS IN USE
SKA	SKANTEK CORPORATION
SKP	SKIPPER ELECTRONICS A/S
SLC	DEPRECATED NOT FOR NEW DESIGNS LORAN-C STATUS
SLI	STARLINK INCORPORATED
SMD	SHIPMODUL CUSTOMWARE
SME	SHAKESPEARE MARINE ELECTRONICS
SMF	SEATTLE MARINE AND FISHING SUPPLY CO.
SMI	SPERRY MARINE, INC.
SML	SIMERL INSTRUMENTS
SMT	SRT-MARINE
SNC	DEPRECATED NOT FOR NEW DESIGNS NAVIGATION CALCULATION BASIS
SNP	SCIENCE APPLICATIONS INTERNATIONAL CORP
SNU	DEPRECATED NOT FOR NEW DESIGNS LORAN-C SNR STATUS
SNV	STARNAV CORPORATION
SNY	SONY CORPORATION – MOBILE ELECTRONICS
SOM	SOUND MARINE ELECTRONICS
SON	SONARDYNE INTERNATIONAL LTD
SOV	SELL OVERSEAS AMERICA
SPL	SPELMAR
SPO	SELECT AIS DEVICE'S PROCESSING AND OUTPUT, COMMAND
SPS	DEPRECATED NOT FOR NEW DESIGNS LORAN-C PREDICTED SIGNAL STRENGTH
SPT	SOUND POWERED TELEPHONE
SRC	STELLAR RESEARCH GROUP
SRD	SRD LABS
SRF	SIRF TECHNOLOGY, INC.
SRS	SCIENTIFIC RADIO SYSTEMS, INC.

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0183 Identifier	DESCRIPTION
SRT	STANDARD RADIO AND TELEFON
SSC	SWEDISH SPACE CORPORATION
SSD	SAAB AB, SECURITY & DEFENSE SOLUTIONS, COMMAND AND CONTROL SYSTEMS DIVISION
SSD	AIS SHIP STATIC DATA
SSE	SEVEN STAR ELECTRONICS
SSF	DEPRECATED NOT FOR NEW DESIGNS POSITION CORRECTION OFFSET
SSI	SEA SCOUT INDUSTRIES
SSN	SEPTENTRIO
STC	STANDARD COMMUNICATIONS
STC	DEPRECATED NOT FOR NEW DESIGNS TIME CONSTANT
STI	SEA-TEMP INSTRUMENT CORP.
STK	SEATECHNIK
STL	STREAMLINE TECHNOLOGY, LTD
STM	SI-TEX MARINE ELECTRONICS
STN	MULTIPLE DATA ID
STO	STOWE MARINE ELECTRONICS
STR	DEPRECATED NOT FOR NEW DESIGNS TRACKING REFERENCE
STT	SAAB TRANSPONDERTECH AB
SVY	SAVOY ELECTRONICS
SWI	SWOFFER MARINE INSTRUMENTS
SYN	SYNERGY SYSTEMS, LLC
SYS	DEPRECATED NOT FOR NEW DESIGNS HYBRID SYSTEM CONFIGURATION
TBB	THOMPSON BROTHERS BOAT MFG.
TBR	TAG BLOCK REPORT REQUEST
TBS	TAG BLOCK LISTENER SOURCE-IDENTIFICATION CONFIGURATION COMMAND
TCN	TRADE COMMISSION OF NORWAY
TDI	TELEDYNE RD INSTRUMENTS
TDL	TIDELAND SIGNAL
TEC	DEPRECATED NOT FOR NEW DESIGNS TRANSIT SATELLITE ERROR CODE & DOPPLER COUNT
TEL	PLESSEY TELLUMAT
TEP	DEPRECATED NOT FOR NEW DESIGNS TRANSIT SATELLITE PREDICTED ELEVATION
TFR	TRANSMIT FEED-BACK REPORT
TGA	DEPRECATED NOT FOR NEW DESIGNS TRANSIT SATELLITE ANTENNA & GEOIDAL HEIGHTS
THR	THRANE AND THRANE A/A
THS	TRUE HEADING AND STATUS

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0183 Identifier	DESCRIPTION
TIF	DEPRECATED NOT FOR NEW DESIGNS TRANSIT SATELLITE INITIAL FLAG
TKI	TOKYO KEIKI INC
TLB	TARGET LABEL
TLL	TARGET LATITUDE AND LONGITUDE
TLS	TELESYSTEMS
TMT	TAMTECH, LTD
TNL	TRIMBLE NAVIGATION
TOP	TOPCON POSITIONING SYSTEMS, INC.
TPC	TRANSMIT SLOT PROHIBIT, COMMAND
TRC	TRACOR, INC.
TRC	THRUSTER CONTROL DATA
TRD	THRUSTER RESPONSE DATA
TRF	DEPRECATED NOT FOR NEW DESIGNS TRANSIT FIX DATA
TRP	DEPRECATED NOT FOR NEW DESIGNS TRANSIT SATELLITE PREDICTED DIRECTION OF RISE
TRS	TRAVROUTE SOFTWARE
TRS	DEPRECATED NOT FOR NEW DESIGNS TRANSIT SATELLITE OPERATING STATUS
TSA	TRANSMIT SLOT ASSIGNMENT
TSI	TECHSONIC INDUSTRIES, INC.
TSP	TEMPORARY TRANSMIT SLOT PROHIBIT
TSR	TRANSMIT SLOT PROHIBIT STATUS REPORT
TTD	TRACKED TARGET DATA
TTK	TALON TECHNOLOGY CORP.
TTM	TRACKED TARGET MESSAGE
TTS	TRANSTECTOR SYSTEMS
TUT	TRANSMISSION OF MULTI-LANGUAGE TEXT
TWC	TRANSWORLD COMMUNICATIONS
TWS	TELIT LOCATION SOLUTIONS A DIVISION OF TELIT WIRELESS SOLUTIONS
TXI	TEXAS INSTRUMENTS, INC.
TXT	TEXT TRANSMISSION
TYC	VINCOTECH (FORMERLY TYCO ELECTRONICS)
UBX	U-BLOX AG
UEL	ULTRA ELECTRONICS LTD
UID	USER IDENTIFICATION CODE TRANSMISSION
UME	UMEC
UNF	UNIFORCE ELECTRONICS CO.

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0183 Identifier	DESCRIPTION	
UNI		UNIDEN CORP. OF AMERICA
UNP		UNIPAS, INC.
URS		URSANAV, INC
VAN		VANNER, INC.
VAR		VARIAN EIMAC ASSOCIATES
VBW		DUAL GROUND/WATER SPEED
VCD	DEPRECATED NOT FOR NEW DESIGNS	CURRENT AT SELECTED DEPTH
VCM		VIDEOCOM
VDM		AIS VHF DATA-LINK MESSAGE
VDO		AIS VHF DATA-LINK OWN-VESSEL REPORT
VDR		SET & DRIFT
VER		VERSION
VEX		VEXILAR
VHW		WATER SPEED AND HEADING
VIS		VESSEL INFORMATION SYSTEMS
VLW		DUAL GROUND/WATER DISTANCE
VMR		VAST MARKETING CORP
VPE	DEPRECATED NOT FOR NEW DESIGN	SPEED, DEAD RECKONED PARALLEL TO TRUE WIND
VPW		SPEED – MEASURED PARALLEL TO WIND
VSD		AIS VOYAGE STATIC DATA
VSI		VDL SIGNAL INFORMATION
VSP		VESPER MARINE
VTA	DEPRECATED NOT FOR NEW DESIGNS	ACTUAL TRACK
VTG		COURSE OVER GROUND & GROUND SPEED
VTI	DEPRECATED NOT FOR NEW DESIGNS	INTENDED TRACK
VWE	DEPRECATED NOT FOR NEW DESIGNS	WIND TRACK EFFICIENCY
VWR	DEPRECATED NOT FOR NEW DESIGNS	RELATIVE (APPARENT) WIND SPEED AND ANGLE
VWT	DEPRECATED NOT FOR NEW DESIGNS	TRUE WIND SPEED AND ANGLE
VXS		VERTEX STANDARD
WAL		WALPORT U.S.A.
WAT		WATER LEVEL DETECTION
WBE		WAMBLEE S.R.L.
WBG		WESTBERG MANUFACTURING,
WBR		WESBAR CORPORATION
WCI		WI-SYS COMMUNICATIONS

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0183 Identifier	DESCRIPTION
WCV	WAYPOINT CLOSURE VELOCITY
WDC	WEATHERDOCK CORP
WDC	DEPRECATED NOT FOR NEW DESIGNS DISTANCE TO WAYPOINT
WDR	DEPRECATED NOT FOR NEW DESIGNS WAYPOINT DISTANCE, RHUMB LINE
WEC	WESTINGHOUSE ELECTRIC CORP.
WFM	DEPRECATED NOT FOR NEW DESIGNS ROUTE FOLLOWING MODE
WHA	W-H AUTOPILOTS
WMM	WAIT MANUFACTURING AND MARINE SALES CO.
WMR	WESMAR ELECTRONICS
WNC	DISTANCE – WAYPOINT TO WAYPOINT
WNG	WINEGARD COMPANY
WNR	DEPRECATED NOT FOR NEW DESIGN WAYPOINT-TO-WAYPOINT DISTANCE, RHUMB LINE
WPL	WAYPOINT LOCATION
WSE	WILSON ELECTRONICS CORP.
WST	WEST ELECTRONICS LIMITED
WTC	WATERCOM
XDR	TRANSDUCER MEASUREMENTS
XEL	3XEL SRL
XTE	CROSS-TRACK ERROR, MEASURED
XTR	CROSS-TRACK ERROR – DEAD RECKONING
YAS	YAESU ELECTRONICS
YDK	YOKOGAWA DENSHIKIKI CO. LTD
YWP	DEPRECATED NOT FOR NEW DESIGNS WATER PROPAGATION SPEED
YWS	DEPRECATED NOT FOR NEW DESIGNS WATER PROFILE
ZAA	DEPRECATED NOT FOR NEW DESIGNS TIME, ELAPSED/ESTIMATED
ZCD	DEPRECATED NOT FOR NEW DESIGNS TIMER
ZDA	TIME & DATE
ZDL	TIME & DISTANCE TO VARIABLE POINT
ZEV	DEPRECATED NOT FOR NEW DESIGNS EVENT TIMER
ZFO	UTC & TIME FROM ORIGIN WAYPOINT
ZLZ	DEPRECATED NOT FOR NEW DESIGNS TIME OF DAY
ZNS	ZINNOS
ZTG	UTC & TIME TO DESTINATION WAYPOINT
ZZU	DEPRECATED NOT FOR NEW DESIGNS TIME, UTC