

MARINE DATA

Product Catalogue

2026



Contents



Compass Heading Displays	4
Compass Bearing Repeaters	4
Bearing Repeater Sights	8
Compass Dial Repeaters	10
Digital Repeaters	14
Tape Repeaters	18
Rate of Turn Repeaters	20
Transmitting Heading Devices	22
TMC & EMC Systems	23
Sensor Units and Devices	24
Rudder Instrumentation	26
Rudder Angle Indicators	27
Rudder Angle Sensor	29
Emergency Rudder Angle Telegraph Systems	29
Power & Data Distribution	30
Junction Boxes	31
Interfaces	32



Automatic Identification Systems	34
AIS Receivers	35
AIS Transponders & Splitters	37
Antennas & Aerials	38

Images are provided for illustration purposes only. Accessories, mounting brackets, and configurations shown may be optional and are not included as standard unless otherwise stated.

Please refer to the relevant product datasheets and manuals to confirm the exact configuration supplied and for full product information.

Specifications, features and availability are subject to change without notice.

© 2026 Marine Data Systems Ltd and Comar Systems Ltd.
All rights reserved.

Compass Bearing Repeaters

MD69 Range

Marine Data Systems' Bearing Compass Repeaters deliver precise heading information for commercial and defence vessels. Designed for seamless integration with gyrocompass systems, they ensure accuracy, durability, and high-contrast visibility in all conditions.



MD69/21 Pedestal Bearing Compass Repeater Assembly

SKU: F021008

Compass Bearing Repeater Pelorus Stand solution, constructed from Glass-fibre Reinforced Plastic. Fitted with precision dual-scale MD69BR/B0 Bearing Repeater and MD96JCB Junction Box. MD21WD Weather Dome sold separately.

H 1200 mm; Ø Max 450 mm
Weight 22kg

MD21WD

Optional Weather Dome
SKU: F021006



MD69/24 Pedestal Bearing Compass Repeater Assembly

SKU: F069124

Compass Bearing Repeater Pedestal Stand solution, constructed from Aluminium. Fitted with precision dual-scale MD69BR Bearing Repeater, MD96JCB Junction Box and MD69CPC Canvas Protective Cover.

H 1200 mm; Ø Max 360 mm
Weight 15.7kg

MD69CPC

Canvas Protective Cover
SKU: F069201



MD69BR

Trunnion Bearing Compass Repeater

SKU: F069018

Weatherproof dual-scale bearing repeater with precision 36:1 concentric compass card display, displaying NMEA heading data while allowing celestial and terrestrial bearings to be taken using optional azimuth and bearing sights.

H 164 mm; W 325 mm; Body Ø 246 mm; Weight 7kg



MD69/22

Bulkhead Bearing Compass Repeater

SKU: F069033

Bulkhead mounted bearing repeater assembly incorporating the MD69BR dual-scale compass repeater with integrated MD96JCB weatherproof junction box, providing NMEA heading display and a stable platform for taking bearings.

H 464 mm; W 325 mm; D 348 mm; Weight 10.5kg



MD69BR/BO

Bowl Only Bearing Compass Repeater

SKU: F069032

Bearing Repeater Bowl to fit Marine Data Systems' standard gimbal mounting options, or for flush surface mounting.

H 127 mm; W 271 mm; Body Ø 246 mm; Weight 7kg



MD69BRX

Bearing Compass Repeater Bowl for Retrofit

SKU: F069036

Retrofit bearing repeater bowl with precision dual-scale 36:1 compass card display, designed for installation into third-party gimbal rings while displaying NMEA heading data for celestial and terrestrial bearings.

H 176 mm; W 246; Body Ø 246 mm; Weight 7kg



MD69BRX Retrofitting Pin & Bush Kits

MD69BRX/P1

254mm Pitch Gimbal
Pin Retrofitting Kit

SKU: F069301



MD69BRX/P2

274mm Pitch Gimbal
Pin Retrofitting Kit

SKU: F069302



MD69BRX/B1

243mm Pitch Gimbal
Bush Retrofitting Kit.

SKU: F069303



MD69BRX/B1012

243mm Pitch Gimbal
Bush Retrofitting Kit.

SKU: F069304



Bearing Repeater Sights

MD69BC

Bearing Circle Sight

SKU: F069052

Traditional vane type bearing circle designed for use with Marine Data bearing compass repeaters, enabling accurate terrestrial and celestial bearings using folding sighting vanes, reflector mirror and removable shadow pin

OD Ø 254 mm; H 143 mm; Weight 1.0kg



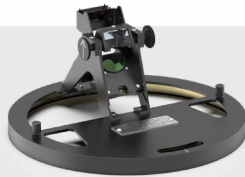
MD69AZI

Azimuth Sight

SKU: F069051

Precision azimuth sight based on the William Thomson (Lord Kelvin) pattern, designed for use with Marine Data bearing compass repeaters to take accurate bearings of the sun, celestial bodies and terrestrial landmarks.

OD Ø 257mm; ID Ø 246.4 mm; H 134 mm; Weight 1.9kg



MD60A2K

Telescopic Alidade

SKU: F060001

Precision telescopic alidade designed for Marine Data bearing compass repeaters, enabling accurate terrestrial bearings of distant objects using a 7x38mm magnified optical sight and prismatic system for clear compass card reading.

OD Ø 254 mm; ID Ø 246.4 mm; H 150 mm; Weight 2.75kg



HMS Dragon, Type 45 Destroyer
Royal Navy, Crown Copyright ©

Compass Dial Repeaters

MD77, MD67, MD68 Range

Marine Data Systems' Compass Dial Repeaters provide clear, real-time heading indication for bridge wings and secondary steering positions. Designed for professional marine use, displaying compass heading with smooth 360° dial displays, high-visibility markings, and dependable performance in demanding maritime environments.



MD77HR

Compass Dial Repeater Membrane Control

SKU: F077052



Compact NMEA compass dial repeater with membrane controls, displaying true or magnetic heading on a traditional analogue compass card. Rugged marine-grade aluminium construction with local and remote dimming control.

H 166mm; W 172 mm; D 81mm
Fascia 144 x 144 mm; Dial Ø 118 mm; Weight 1.25kg
Trunnion bracket shown for illustration purposes only

MD77HRB

Compass Dial Repeater Rotary Knob Control

SKU: F077058



Compact NMEA compass dial repeater with rotary encoder dimming control, displaying true or magnetic heading on a traditional analogue compass card. Rugged marine-grade aluminium construction.

H 166 mm; W 172 mm; D 101 mm
Fascia 144 x 144 mm; Dial Ø 118 mm; Weight 1.25kg
Trunnion bracket shown for illustration purposes only

MD67HR

Weatherproof Compass Dial Repeater

SKU: F067001



Weatherproof NMEA compass dial repeater with rotary dimming control, displaying true or magnetic heading on a traditional analogue compass card. Fully sealed for exposed area marine installations.

H 174 mm; W 221 mm; D 100 mm
Fascia 160 x 160 mm; Dial Ø 118 mm; Weight 1.5kg
Trunnion bracket shown for illustration purposes only

MD68HR

Dual Scale Steering Repeater Display

SKU: F068052



Compact dual-scale NMEA steering repeater with precision 36:1 compass card and 0.1° inner dial resolution. Membrane touch controls, selectable true or magnetic heading sources, and rugged marinised aluminium construction.

H 220 mm; W 235mm; D 78 mm
Fascia 192mm x 192mm; Weight: 2.0 kg
Outer Dial Ø 164 mm; Inner dial Ø 103 mm
Trunnion bracket shown for illustration purposes only

MD68HRB

Dual Scale Steering Repeater Display

SKU: F068058



Compact dual-scale NMEA steering repeater with precision 36:1 compass card and 0.1° inner dial resolution. Rotary encoder dimming control, automatic selection of heading data and rugged marinised aluminium construction.

H 220 mm; W 235mm; D 92 mm
Fascia 192mm x 192mm; Weight: 2.0 kg
Outer Dial Ø 164 mm; Inner dial Ø 103 mm
Trunnion bracket shown for illustration purposes only

MD77, MD67, MD68 Bulkhead Bracket Mounting Kits

Optional bracket mounting kits for bulkhead installation are available separately:



MD77TB

Bulkhead Mounting Kit for MD77 Series equipment.

SKU: F077100



MD67TB

Bulkhead Mounting Kit for MD67 Series equipment.

SKU: F067100



MD68TB

Bulkhead Mounting Kit for MD68 Series equipment.

SKU: F068100



Digital Repeaters

MD71 & MD74 Range

Marine Data Systems' Digital Repeaters and Multifunction Displays provide clear, real-time presentation of essential navigation data in a compact and highly visible format. Designed for professional marine environments, these displays offer flexible installation for bridge consoles, steering positions, and secondary monitoring locations.



MD71HR

Digital Compass Heading Repeater Display

SKU: F071010



Compact NMEA 2.7" OLED digital heading repeater with multifunction keypad, designed for clear heading display in space-limited marine installations with rugged aluminium construction.

H 96 mm; W 96 mm; D 35 mm Trunnion bracket shown for illustration purposes only
Fascia 96 x 96 mm; Weight 0.4kg

MD71MFD

Digital Multi-Function Display

SKU: F071001



Compact NMEA multifunction display with OLED graphic screen, presenting heading, rate of turn, pitch and roll, and position in clear numeric and graphical formats. Contact us for more details.

H 96 mm; W 96 mm; D 35 mm Trunnion bracket shown for illustration purposes only
Fascia 96 x 96 mm; Weight 0.4kg



MD74HR

Digital Compass Heading Repeater

SKU: F074021

Compact NMEA digital heading repeater with back-lit LCD display and high-visibility LED turn indicator for rate of turn or course to steer. Rugged marinised aluminium construction.

H 137 mm; W 250 mm; D 57 mm

Fascia: 192 x 97 x 6 mm; Weight: 1.0 kg

Trunnion bracket shown for illustration purposes only



MD74HR/W

Weatherproof Digital Compass Heading Repeater

SKU: F074031

Weatherproof NMEA digital heading repeater with back-lit LCD heading display and LED turn indicator for rate of turn or course to steer. Fully sealed to IEC 60945 exposed area classification.

H 137 mm; W 250 mm; D 78 mm

Fascia: 192 x 97 x 7 mm; Weight: 1.0 kg

Trunnion bracket shown for illustration purposes only



MD71 & MD74

Bulkhead Bracket Mounting Kits

Optional bracket mounting kits for bulkhead installation are available separately:



MD71TB

Bulkhead Mounting Kit for MD71 Series equipment.

SKU: F071200



MD74TB

Bulkhead Mounting Kit for MD74 Series Equipment

SKU: F074100



MD74TB/W

Bulkhead Mounting Kit for MD74/W Series Equipment

SKU: F074101

Tape Repeaters

MD73 Range

Marine Data Systems' Tape Repeaters provide clear, continuous heading indication using high-contrast moving tape displays. Designed for professional marine environments, they present heading information in an intuitive linear format, allowing rapid interpretation when steering or monitoring course.



MD73HR

Tape Compass Heading Repeater

SKU: F073043



Compact NMEA tape compass repeater with high-contrast moving tape display and LED course-to-steer indicator. Rugged marinised construction for panel or bulkhead mounting.

H 123 mm; W 290 mm; D 153 mm

Fascia 235 x 85 x 4 mm; Weight: 2.5 kg

Trunnion bracket shown for illustration purposes only

MD73HR/W

Weatherproof Tape Compass Heading Repeater

SKU: F073051



Weatherproof NMEA tape compass repeater with large-format moving tape display and LED course-to-steer indicator. Fully sealed to IEC 60945 exposed area classification.

H 123 mm; W 290 mm; D 153 mm

Fascia 235 x 85 x 4 mm; Weight: 2.5 kg

Trunnion bracket shown for illustration purposes only

MD73 Bulkhead Bracket Mounting Kits

Optional bracket mounting kits for bulkhead installation are available separately:



MD73TB

Bulkhead Mounting Kit for MD73HR Units

SKU: F073100



MD73TB/W

Bulkhead Mounting Kit for MD73HR/W Units

SKU: F073101

Rate of Turn Indicators

MD77, MD67 Range

Marine Data Systems' Rate of Turn Indicators provide clear, real-time indication of a vessel's rate of turn, supporting safe navigation and precise manoeuvring. Using NMEA heading data, these indicators present turn rate in degrees per minute on clear analogue dial displays, enabling operators to monitor vessel movement.



MD77ROT Dial Rate of Turn Indicator

SKU: F077201



Compact NMEA rate of turn indicator with 118 mm analogue dial displaying turn rate in degrees per minute. Touch controls with rugged marinised aluminium construction.

H 166mm; W 172 mm; D 81mm
Fascia 144 x 144 mm; Dial Ø 118 mm; Weight 1.25 kg
Trunnion bracket shown for illustration purposes only

MD77ROT120 Dial Rate of Turn Indicator

SKU: F077203



Compact NMEA rate of turn indicator with 118 mm analogue dial displaying turn rate up to $\pm 120^\circ$ per minute. Touch controls with rugged marinised aluminium construction.

H 166mm; W 172 mm; D 81mm
Fascia 144 x 144 mm; Dial Ø 118 mm; Weight 1.25 kg
Trunnion bracket shown for illustration purposes only

MD67ROT Weatherproof Dial Rate of Turn Indicator

SKU: F067201



Weatherproof NMEA rate of turn indicator with 118 mm analogue dial displaying turn rate in degrees per minute. Rotary dimming control with rugged sealed construction for exposed marine environments.

H 174 mm; W 221 mm; D 100 mm
Fascia 160 x 160 mm; Dial Ø 118 mm; Weight 1.5 kg
Trunnion bracket shown for illustration purposes only

Transmitting Heading Devices

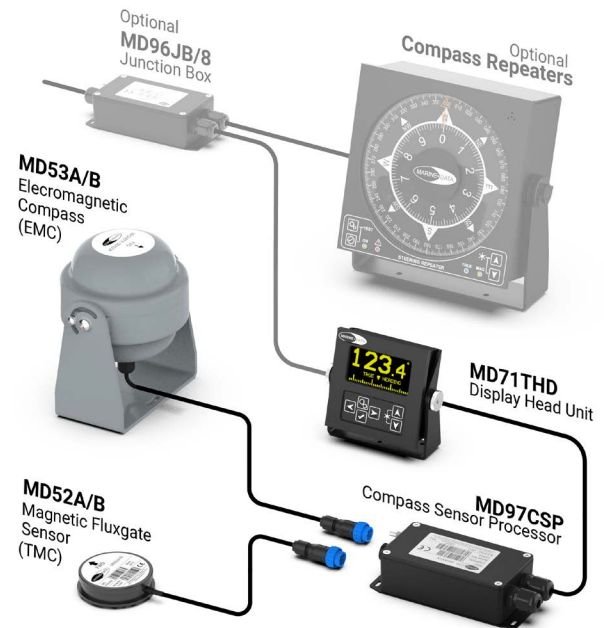
Sensor unit options:

MD52 (TMC)

MD53 (EMC)

Marine Data Systems' Transmitting Heading Devices (THD) provide accurate digital heading data for repeaters, autopilots and other bridge equipment.

Available as Transmitting Magnetic Compass (TMC) and Electromagnetic Compass (EMC) systems, they either convert magnetic compass heading from an existing magnetic compass, or directly sense the Earth's magnetic field to deliver reliable NMEA heading data throughout a vessel.



MD71TMC

Transmitting Magnetic Compass System – Advanced

SKU: F071100

Transmitting Magnetic Compass system converting a ship's magnetic compass heading into NMEA 0183 digital data for distribution to heading repeaters and navigation equipment.

System Comprises: MD52A/B, MD97CSP, MD71THD

MD71EMC

Electromagnetic Compass System

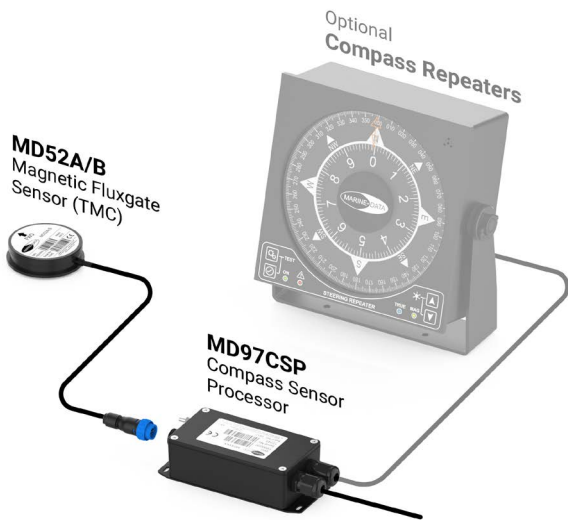
SKU: F071101

Electromagnetic Compass system providing accurate NMEA 0183 digital heading data by directly sensing the Earth's magnetic field for repeaters and onboard navigation systems.

System Comprises: MD53A/B, MD97CSP, MD71THD

Optional for both systems:

Junction Boxes, Heading Repeaters, Remote Dimmer



MD97TMC

Transmitting Magnetic Compass System – Standard

SKU: F097100

Transmitting Magnetic Compass system providing accurate NMEA 0183 digital heading data from a ship's magnetic compass for repeaters, autopilots and other bridge navigation equipment.

System Comprises: MD52A/B, MD97CSP

MD97CSP

Compass Sensor Processor

SKU: F097007



Compass Sensor Processor for TMC and EMC systems, processing and calibrating heading sensor signals to generate accurate NMEA 0183 digital heading data for repeaters and bridge equipment.

H 41.3 mm; W 146 mm; D 41 mm; Weight: 0.35 kg

MD52A/B

Magnetic Compass Sensor Fluxgate

SKU: F052006



Magnetic fluxgate compass sensor for TMC systems, detecting compass card movement and supplying heading signals to the sensor processor for conversion into accurate NMEA 0183 digital heading data.

H 18 mm; Ø 69 mm; Weight 0.12 kg



MD54 SKU: F054001
Fluxgate Adhesive Mount



MD58 SKU: F058001
Fluxgate Bracket Mount

MD53A/B

Electromagnetic Compass

SKU: F053006



Electromagnetic compass sensor for EMC systems, directly sensing the Earth's magnetic field and supplying heading signals for processing into accurate NMEA 0183 digital heading data.

H 166 mm; W 142 mm; D 123 mm; Weight 1.0 kg

MD71THD

Display Head Unit for TMC & EMC Systems

SKU: F071007



Control and display unit for THD systems providing sensor calibration, deviation and variation correction, and clear digital heading display while outputting NMEA 0183 heading data to repeaters and navigation equipment.

H 96 mm; W 96 mm; D 35 mm
Fascia 96 x 96 mm; Weight 0.4kg

Trunnion bracket shown for illustration purposes only

Rudder Instrumentation

Marine Data Systems' Rudder Instrumentation provides accurate indication of rudder position to support safe steering and vessel manoeuvring.

The range includes Rudder Angle Indicators, Rudder Angle Sensors and Emergency Rudder Angle Telegraph Systems, designed to measure, transmit and display rudder position clearly across the bridge and other steering locations.

Built for professional marine environments, these systems offer robust construction, precise sensing technology and reliable operation across a wide range of commercial and specialist vessels.



Wheelmark

MD77RDI Dial Rudder Angle Indicator

SKU: F077202



Compact NMEA rudder angle indicator with clear 118 mm analogue dial displaying rudder position from port to starboard. Touch dimming control with rugged marinised aluminium construction.

H 166mm; W 172 mm; D 81mm
Fascia 144 x 144 mm; Dial Ø 118 mm; Weight 1.25 kg
Trunnion bracket shown for illustration purposes only

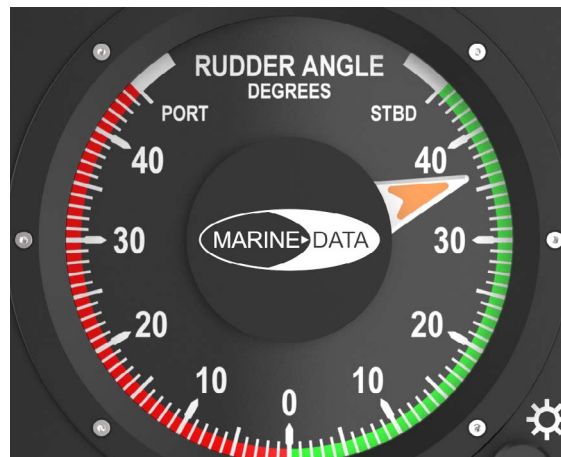
MD67RDI Weatherproof Dial Rudder Angle Indicator

SKU: F067202



Weatherproof NMEA rudder angle indicator with clear 118 mm analogue dial displaying rudder position from port to starboard. Fully sealed construction with rotary dimming control for exposed marine installations.

H 174 mm; W 221 mm; D 100 mm
Fascia 160 x 160 mm; Dial Ø 118 mm; Weight 1.5 kg
Trunnion bracket shown for illustration purposes only



MD74RDI

Digital Rudder Angle Indicator

SKU: F074026



Compact NMEA rudder angle indicator with large-format digital display showing rudder position to 0.1° resolution. LED bar indicates port or starboard manoeuvres. Rugged marinised aluminium construction.

H 137 mm; W 250 mm; D 57 mm

Fascia: 192 x 97 x 6 mm; Weight 1.0 kg

Trunnion bracket shown for illustration purposes only

MD74RDI/W

Weatherproof Digital Rudder Angle Indicator

SKU: F074029



Weatherproof NMEA digital rudder angle indicator with four-digit display showing rudder position to 0.1° resolution. LED bar indication for rudder angle with fully sealed construction for exposed marine installations.

H 137 mm; W 250 mm; D 78 mm

Fascia: 192 x 97 x 7 mm; Weight 1.0 kg

Trunnion bracket shown for illustration purposes only

MD72RDI

Panoramic Rudder Angle Indicator

SKU: F072001



Panoramic NMEA rudder angle indicator with three-window analogue display providing clear rudder position indication from 45° port to 45° starboard. Deckhead-mounted design with dimming control. VESA mount sold separately.

H 64 mm; W 270 mm; D 233 mm (inc. cable); Weight 2.0 kg

VESA bracket shown for illustration purposes only

MD61

Rudder Angle Sensor Transmitter

SKU: F061001



Rudder angle transmitter measuring rudder position and supplying NMEA 0183 and analogue outputs for rudder indicators and navigation equipment. Wheelmark approved when used within a Marine Data rudder angle indication system.

H 125 mm; Ø 200 mm; Weight 4.0 kg

MD310SS

Emergency Rudder Angle Telegraph System

SKU: F310501



Emergency rudder angle telegraph system transmitting steering commands from the wheelhouse to the steering gear compartment, enabling manual rudder control when the vessel's main power supply has failed.

MD310S: H 166 mm; W 172 mm; D 135 mm

Fascia 144 x 144 x 6 mm; Dial Ø 118 mm; Weight 1.65 kg

MD310TS

Emergency Dual Rudder Angle Telegraph System

SKU: F310502



Emergency dual rudder angle telegraph system transmitting steering commands from the wheelhouse to remote steering compartments, enabling manual control of twin rudders during vessel main power failure.

MD310T: H 144 mm; W 288 mm; D 117.5 mm

Dials Ø 118 mm; Weight 3.0 kg

Power & Data Distribution

Marine Data Systems' Power & Data Distribution products provide reliable connectivity between navigation equipment, sensors and bridge instruments.

The range includes data distribution units, junction boxes and interfaces designed to manage NMEA signals, power and system wiring across a vessel.

In addition to standard products, Marine Data also develops project-specific interface modules to meet specialised integration requirements for new builds and retrofit installations.

MD94DDU

Data Distribution Unit

SKU: F094053

NMEA 0183 data distribution unit accepting two inputs and providing buffered outputs to multiple devices, enabling reliable distribution of heading and other NMEA data across vessel systems. A DDU+ variant includes 10 additional pass-through terminals.

H 254 mm; W 254 mm; D 70 mm; Weight: 1.5 kg

Certification: DNV Type Approved

MD94DDU+ variant SKU: F094056



MD96JB/8

8-Way Junction Box

SKU: F096020

Compact eight-way marine junction box for connecting ship's cabling to Marine Data equipment, featuring a splashproof die-cast aluminium enclosure, double-row barrier strip screw terminals, watertight cable glands and an external earth bonding stud.

H 64 mm; W 114.5 mm; D 30mm; Weight: 0.2 kg



MD96JCB

Weatherproof Junction Box

SKU: F096001

Heavy-duty weatherproof marine junction box machined from billet aluminium, designed for secure connection of Marine Data equipment in demanding marine environments. Supplied with 16-way barrier terminals as standard and optionally expandable to 32-way connections.

H 122 mm; W 177 mm; D 73mm; Weight: 1.3 kg



Data Interfaces

MD36/5

Synchro to NMEA Converter Interface

SKU: F036027



Synchro to NMEA interface, converting three-phase AC synchro heading signals into IEC 61162-1 (NMEA 0183) digital data, for integration with modern navigation equipment. Ideal for upgrading legacy compass transmission systems to support digital heading distribution.

H 222 mm; W 146 mm; D 55 mm; Weight: 1.0 kg

MD36/5/W

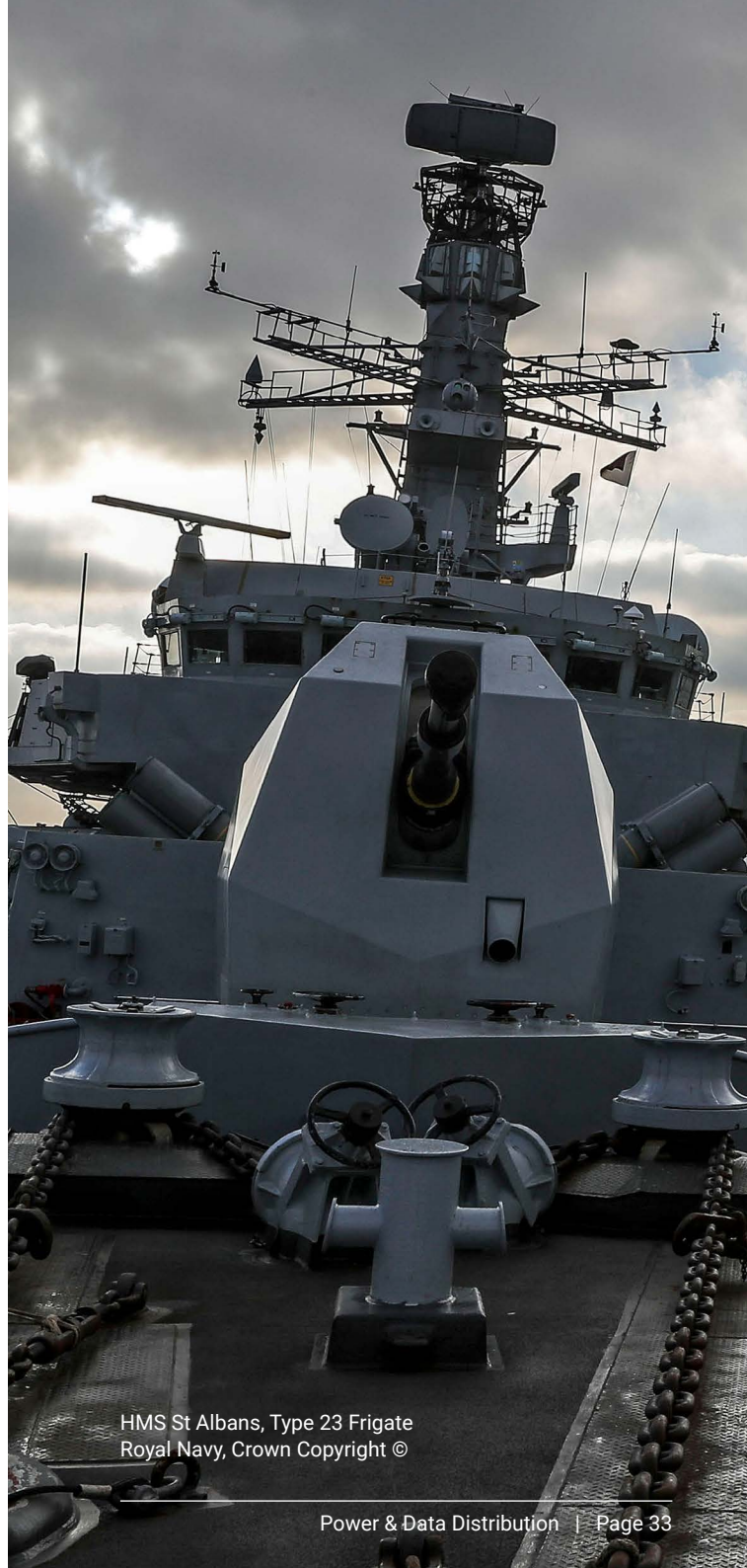
Weatherproof Synchro to NMEA Interface

SKU: F036025



Weatherproof synchro to NMEA interface, converting three-phase AC synchro heading signals from legacy equipment into IEC 61162-1 (NMEA 0183) digital data. Housed in a rugged marinised enclosure suitable for exposed area installations, enabling traditional compass transmission systems to interface with modern navigation equipment.

H 110 mm; W 177 mm; D 73mm; Weight: 1.3 kg



HMS St Albans, Type 23 Frigate
Royal Navy, Crown Copyright ©

Automatic Identification Systems

Comar Systems' AIS products provide reliable vessel identification and tracking for maritime safety, monitoring and traffic management applications.

The range includes AIS transponders, receivers and base station solutions designed to transmit, receive and process Automatic Identification System data across a wide variety of vessel types and shore-based installations.

Engineered for professional marine environments, these systems deliver dependable AIS performance for collision avoidance, fleet monitoring and maritime domain awareness.

R450-X

Network AIS Receiver with Ethernet & WiFi

SKU: 001-2516

Non-WiFi E variant SKU: 001-2517



Professional dual-channel AIS receiver designed for shoreside monitoring of vessel traffic within VHF range. Decodes all AIS message types and streams AIS data via Ethernet or WiFi to PCs, servers and networked monitoring systems for vessel tracking and maritime situational awareness.

L 140 mm; W 120 mm; D 37 mm; Weight: 250 g

R450-XG

Network AIS Receiver with Ethernet, WiFi & GNSS

SKU: 001-2519

Non-WiFi E variant SKU: 001-2518



Professional dual-channel AIS receiver with integrated GNSS, designed for shoreside monitoring of vessel traffic within VHF range. Decodes all AIS message types and delivers AIS and positioning data via Ethernet or WiFi to PCs, servers and networked vessel monitoring systems.

L 140 mm; W 120 mm; D 37 mm; Weight: 250 g



The R450 series is offered in a number of variants to suit different requirements:

X Series use a Lantronix® XPort® module, supporting up to 4 TCP and 1 UDP client/server connections.

E Suffix models are Ethernet-only variants and do not include a WiFi module.

G Suffix models include an integrated GNSS receiver.

R550Ni

Intelligent Network AIS Receiver with WiFi

SKU: 001-1149

Intelligent network AIS receiver with integrated ARM processor for coastal vessel traffic monitoring. Processes AIS data locally and distributes it via Ethernet or WiFi, supporting scalable monitoring solutions for ports, authorities and vessel tracking systems.

L 90 mm; W 96 mm; D 28 mm; Weight: 130 g



COM100

Lightweight OEM AIS Receiver

SKU: 001-1050

Compact OEM dual-channel AIS receiver module providing NMEA 0183 vessel data output as standard, with optional USB or Ethernet connectivity, designed for lightweight integration into maritime monitoring and tracking systems.

L 75mm; W 76mm; H 28mm; Weight: 70g
COM100NU shown for illustration purposes only



R550NGi

Intelligent Network AIS & GNSS Receiver with WiFi

SKU: 001-1050

Intelligent network AIS and GNSS receiver with integrated ARM processor for coastal vessel traffic monitoring. Processes AIS and positioning data locally and distributes it via Ethernet or WiFi to monitoring servers, tracking platforms and maritime domain awareness systems.

L 90 mm; W 96 mm; D 28 mm; Weight: 130 g



T350

Class B SOTDMA AIS Transponder with WiFi

SKU: 001-2501

Compact Class B SOTDMA AIS transponder designed for commercial, fishing and leisure vessels, automatically broadcasting vessel identity, position and voyage data while receiving AIS targets, supporting NMEA 0183 and NMEA 2000 systems with built-in Wi-Fi for monitoring and configuration.

L 140 mm; W 120 mm; D 37 mm; Weight: 250 g



R250

AIS Receiver with USB, NMEA & WiFi

SKU: 001-2506

Compact dual-channel AIS receiver decoding all AIS message types and delivering vessel traffic data via USB, NMEA 0183 or WiFi. Suitable for leisure and commercial installations, providing AIS data to chartplotters, PCs, servers and mobile devices.

L 140 mm; W 120 mm; D 37 mm; Weight: 250 g



AS350

AIS / VHF Antenna Splitter

SKU: 001-2520

AIS/VHF antenna splitter designed for AIS Class B transponders and receivers, allowing AIS equipment and VHF radios to operate from a single antenna while automatically switching signals and giving priority to VHF transmissions.

L 140 mm; W 120 mm; D 37 mm; Weight: 250 g



Antennas & Aerials

AV100

Stainless Steel Whip Antenna

SKU: 001-1045

Omnidirectional stainless steel whip antenna designed specifically for AIS installations, providing reliable AIS transmission and reception while reducing interference from nearby VHF channels, suitable for both leisure and commercial vessel installations.

L 0.93 m; Weight: 93 g



AV300

Fibreglass VHF Antenna with Universal Base

SKU: 001-1046

Commercial-grade fibreglass VHF antenna with omnidirectional performance, designed for AIS and marine radio installations on vessels or shore monitoring stations, offering rugged construction and reliable signal performance within the 156–162 MHz marine band.

L 1.1 m; Weight: 560 g



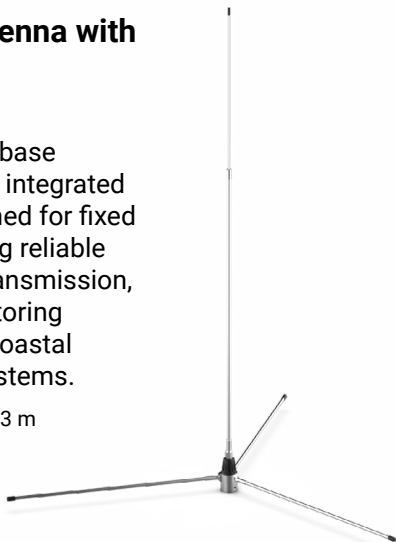
AV200

Base Station Antenna with Ground Plane

SKU: 001-1041

Omnidirectional AIS base station antenna with integrated ground plane, designed for fixed installations requiring reliable AIS reception and transmission, ideal for shore monitoring stations, ports and coastal traffic monitoring systems.

L 1.48 m; radial lengths 5.3 m
Weight: 560 g



AV400

Heavy Duty Commercial GRP Antenna

SKU: 001-1040

Heavy duty omnidirectional GRP AIS antenna designed for dedicated AIS installations, providing reliable AIS signal transmission and reception while minimising interference from nearby VHF channels, suitable for commercial vessels and shore monitoring stations.

L 1.6 m; Weight: 1.6 kg



AG100

GNSS Antenna

SKU: 001-1030

High performance GNSS antenna providing positional data for AIS transponders and receivers, featuring an integrated low-noise amplifier and weatherproof enclosure for reliable GNSS signal reception in marine environments.

H 71.3 mm; Ø 80 mm; Weight: 150 g



AV20

Quarter-Wave Helical AIS Antenna

SKU: 001-1054

Lightweight quarter-wave helical AIS antenna designed for compact installations such as UAVs and lightweight monitoring systems, providing reliable AIS signal reception with rugged rubber overmould construction and low windage performance.

L 180 mm; Weight: 87 g



AV30

Ground Plane Independent AIS Antenna

SKU: 001-1055

Compact ground plane independent AIS antenna with rugged polycarbonate base and rubber overmould whip, designed for lightweight installations such as UAVs and remote monitoring systems requiring reliable AIS reception.

L 310 mm; Weight: 167 g



Porto Carras, Greece
Unsplash, Paul Pastourmatzis ©

Index



Compass Heading Displays	4
Compass Bearing Repeaters	4
MD69/21 Pedestal Bearing Compass Repeater Assembly	5
MD69/24 Pedestal Bearing Compass Repeater Assembly	5
MD69BR Trunnion Bearing Compass Repeater.....	6
MD69/22 Bulkhead Bearing Compass Repeater.....	6
MD69BR/BO Bowl Only Bearing Compass Repeater	6
MD69BRX Bearing Compass Repeater Bowl for Retrofit.....	7
MD69BRX Retrofitting Pin & Bush Kits.....	7
Bearing Repeater Sights	8
MD69BC Bearing Circle Sight	8
MD69AZI Azimuth Sight	8
MD60A2K Telescopic Alidade	8
Compass Dial Repeaters.....	10
MD77HR Compass Dial Repeater Membrane Control.....	11
MD77HRB Compass Dial Repeater Rotary Knob Control	11
MD67HR Weatherproof Compass Dial Repeater	11
MD68HR Dual Scale Steering Repeater Display.....	12
MD68HRB Dual Scale Steering Repeater Display.....	13
MD77, MD67, MD68 Bulkhead Bracket Mounting Kits	13
Digital Repeaters	14
MD71HR Digital Compass Heading Repeater Display.....	15
MD71MFD Digital Multi-Function Display.....	15
MD74HR Digital Compass Heading Repeater	16
MD74HR/W Weatherproof Digital Compass Heading Repeater	16
MD71 & MD74 Bulkhead Bracket Mounting Kits.....	17
Tape Repeaters	18
MD73HR Tape Compass Heading Repeater.....	19
MD73HR/W Weatherproof Tape Compass Heading Repeater...	19
MD73 Bulkhead Bracket Mounting Kits	19
Rate of Turn Indicators	20
MD77ROT Dial Rate of Turn Indicator	21
MD77ROT120 Dial Rate of Turn Indicator.....	21
MD67ROT Weatherproof Dial Rate of Turn Indicator	21
Transmitting Heading Devices	22
TMC & EMC Systems	23
MD71TMC Transmitting Magnetic Compass System	23
MD71EMC Electromagnetic Compass System	23
MD97TMC Transmitting Magnetic Compass System	24
Sensor Units and Devices	24
MD97CSP Compass Sensor Processor.....	24
MD52A/B Magnetic Compass Sensor Fluxgate.....	25
MD53A/B Electromagnetic Compass	25
MD71THD Display Head Unit for TMC & EMC Systems	25

Rudder Instrumentation.....	26
Rudder Angle Indicators	27
MD77RDI Dial Rudder Angle Indicator	27
MD67RDI Weatherproof Dial Rudder Angle Indicator	27
MD74RDI Digital Rudder Angle Indicator.....	28
MD74RDI/W Weatherproof Digital Rudder Angle Indicator	28
MD72RDI Panoramic Rudder Angle Indicator	28
Rudder Angle Sensor	29
MD61 Rudder Angle Sensor Transmitter	29
Emergency Rudder Angle Telegraph Systems	29
MD310SS Emergency Rudder Angle Telegraph System	29
MD310TS Emergency Dual Rudder Angle Telegraph System	29
Power & Data Distribution.....	30
Junction Boxes	31
MD94DDU Data Distribution Unit.....	31
MD96JB/8 8-Way Junction Box	31
MD96JCB Weatherproof Junction Box.....	31
Data Interfaces	32
MD36/5 Synchro to NMEA Converter Interface	32
MD36/5/W Weatherproof Synchro to NMEA Interface.....	32
Automatic Identification Systems	34
AIS Receivers.....	35
R450-X Network AIS Receiver with Ethernet & WiFi.....	35
R450-XG Network AIS Receiver with Ethernet, WiFi & GNSS.....	35
R550Ni Intelligent Network AIS Receiver with WiFi.....	36
R550NGi Intelligent Network AIS & GNSS Receiver with WiFi.....	36
R250 AIS Receiver with USB, NMEA & WiFi	36
COM100 Lightweight OEM AIS Receiver	37
AIS Transponders & Splitters.....	37
T350 Class B SOTDMA AIS Transponder with WiFi	37
AS350 AIS / VHF Antenna Splitter	37
Antennas & Aerials	38
AV100 Stainless Steel Whip Antenna.....	38
AV200 Base Station Antenna with Ground Plane.....	38
AV300 Fibreglass VHF Antenna with Universal Base	39
AV400 Heavy Duty Commercial GRP Antenna	39
AG100 GNSS Antenna.....	40
AV20 Quarter-Wave Helical AIS Antenna.....	40
AV30 Ground Plane Independent AIS Antenna.....	40





Marine Data Systems Ltd

Vittlefields Technology Centre
Forest Road, Newport,
Isle of Wight, PO30 4LY
United Kingdom

Tel: +44 1983 822180

Email: sales@marine-data.co.uk

Web: marine-data.co.uk

Navigation. Innovation.



Comar Systems Ltd

Vittlefields Technology Centre
Forest Road, Newport,
Isle of Wight, PO30 4LY
United Kingdom

Tel: +44 1983 828900

Email: sales@comarsystems.com

Web: comarsystems.com

See. Be Seen. Be Safe at Sea.