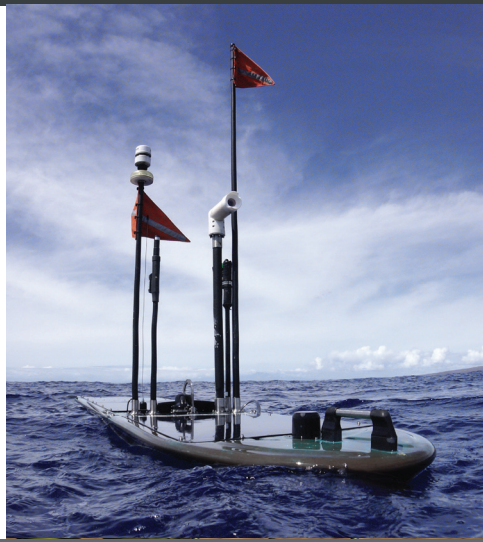
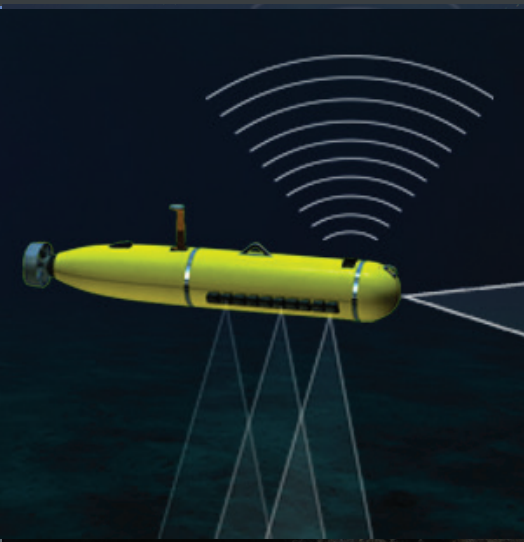


Airmar Multisensors for Commercial and Defense Applications

Precision Above and Below the Surface

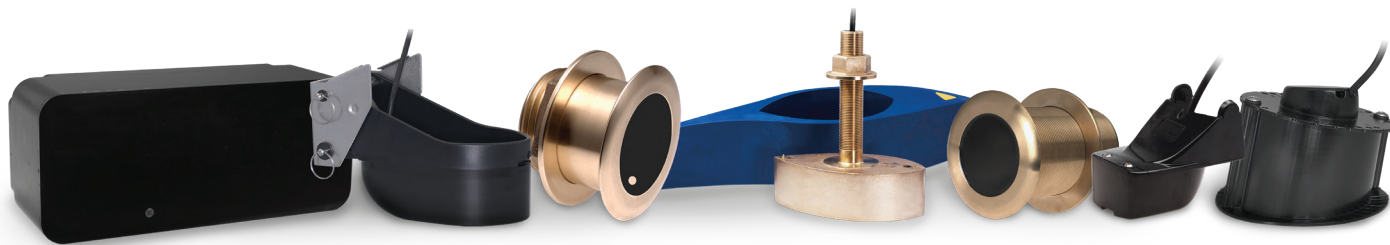


Airmar Technology Corporation, an Amphenol Company is a world-leader in ultrasonic and acoustic products for defense and industry. Delivering a comprehensive line of sensor technologies, that are field proven to perform under the most challenging conditions, Airmar is a trusted partner to OEM customers. We offer standard and custom products to our customers which are manufactured in the United States.

As our name implies – we lead in the design, development and manufacture of sensor technologies for the air and marine environments.



Marine Transducers



Airmax is the foremost supplier of ultrasonic marine transducers and supplies every major marine electronics company in the world. Our extensive line consists of conventional frequency, broadband, and Chirp-ready models are designed to accommodate every type of installation needed. Our products power output ranges from 300 Watts to 3kW for depth performance to 10,000 feet.

Airmax's standard product line consists of over 150 models to choose from; however custom configurations and design is available upon request.

A Selection of Our Most Popular Models

Model	Technology	Mount method	Frequency	Power output	Beamwidth	Max depth	NSN
SS60-20- M&M	Conventional	Low Profile Thru-hull	50/200 kHz	600 W	50kHz-9°/ 200kHz 6°	1200 ft (366 m)	5845-01-658-2710
M260	Conventional	In-Hull	50/200 kHz	1kW	50kHz-9°/ 200kHz 6°	2500 ft (762m)	5845-01-685-4547
B260	Conventional	Bronze thru-hull	50/200 kHz	1kW	50kHz-9°/ 200kHz 6°	2500 ft (762m)	5845-01-669-2404
SS175H-0	Chirp	Low Profile Thru-hull	130-210 kHz	1kW	High 10°-6°	1000 ft (304 m)	5845-01-666-1297
B175H	Chirp	Low Profile Thru-hull	130-210 kHz	1kW	High 10°-6°	1000 ft (304 m)	5845-01-691-9152
B265LM	Chirp	Bronze thru-hull	42-65kHz/ 85-135kHz	1kW	Low 25°-16°/ Med 16°-11°	3000 ft (914m)	
R109LH	Chirp	Thru-hull	38-75kHz/ 130-210kHz	2kW	Low 19°-10° (Port/Star 10°-5° Fore/Aft) High 8°-4°	6000 ft (1828m)	
PM111LM	Chirp	Pocket/Cavity Mount	38-75kHz/ 80-130kHz	2kW	Low 19°-10° (Port/Star 10°-5° Fore/Aft) Med 13°- 8°	6000 ft (1828m)	
R509LH	Chirp	Thru-Hull	38-75kHz/ 130-210kHz	3kW	Low 23°-9° (Port/Star 10°-5° Fore/Aft) High 8°- 4°	10,000 ft (3048m)	
CM599LM	Chirp	Pocket/Cavity Mount	28-60kHz/ 130-210kHz	3kW	Low 23°-9° (Port/Star 11°-5° Fore/Aft) High 13°- 8°	10,000 ft (3048m)	

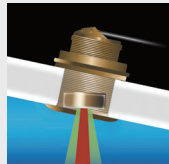


Mounting Solutions for Every Hull Type

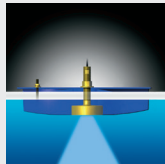
Transom Mount (TM)



Tilted Element B (Bronze) or SS (Stainless Steel)



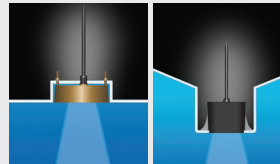
Thru-Hull B (Bronze), SS (Stainless) or R (Resin)



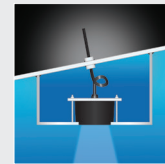
In-Hull R (Resin), M or P (Plastic)



Pocket/Keel Mount (PM)

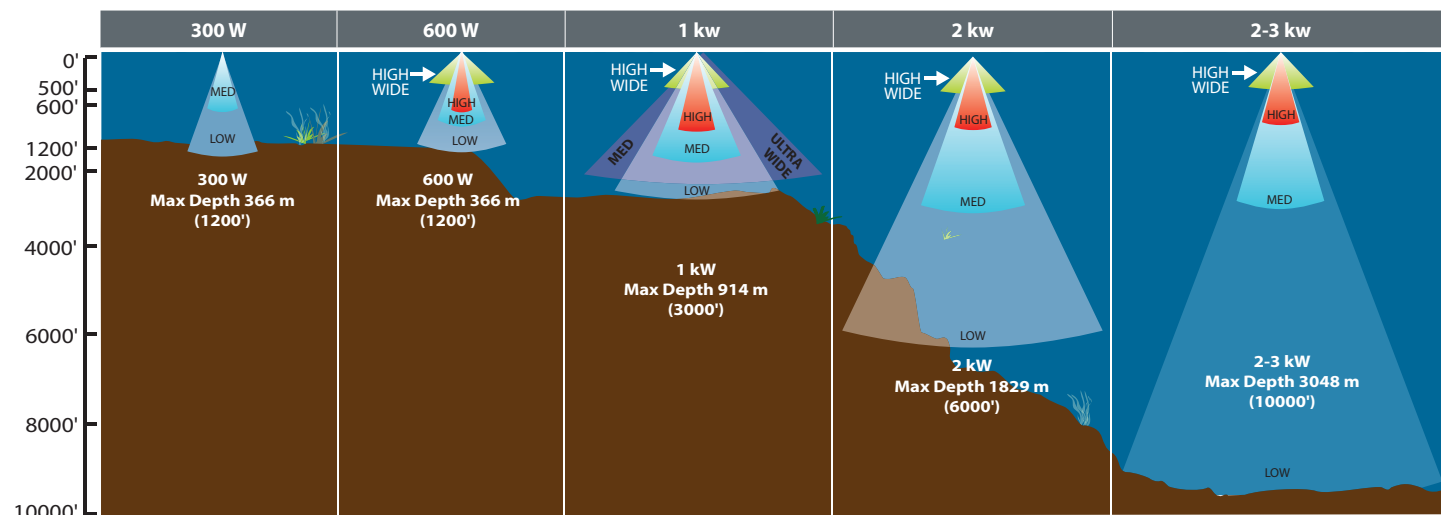


Cavity Mount (CM)



		Transom Mount	Tilted Element	Thru-Hull With Fairing	In-Hull	Pocket/Cavity Mount
	Up to 6m (20')	X	X		X	
	6-12m (20'-40')		X	X	X	X
	12-18m (40'-60')			X	X	X
	18-24m (60'-80')			X	X	X
	24m (80')+				X	X Custom

Output Power and Beamwidth Comparison



For bottom coverage details visit the product page on Airmar.com



300WX WeatherStation® Instrument

Custom Colored,
Camo and Shielded
Options Available



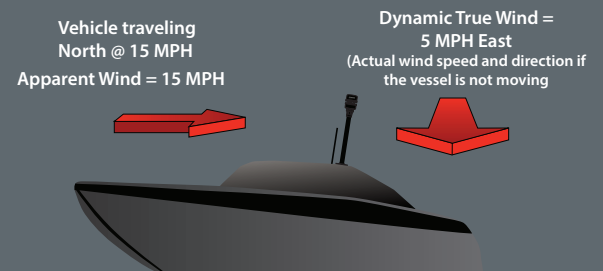
	300WX	300WX-IP67	300WX-IP67
Weatherproof rating	IP64	IP67	IP67
Relative humidity (field-serviceable) Calculated dew point/Calculated heat index	✓ Standard		
Apparent wind speed and angle	✓	✓	✓
Dynamic True wind speed and direction	✓	✓	✓
Barometric pressure	✓	✓	✓
Air temperature	✓	✓	✓
GNSS-Enabled (Position, COG, SOG)	✓	✓	✓
Three-axis accelerometer for pitch & roll	✓	✓	✓
Three-axis solid-state compass with dynamic stabilization: Better than 1° static compass accuracy Best-in-class 2° dynamic compass accuracy	✓	✓	✓
Three-axis rate gyros provide rate-of-turn data	✓	✓	✓
Operating voltage	9-40 VDC	9-40 VDC	9-40 VDC
Wireless connectivity to CAST app (non-BLE units available)	✓	✓	✓
Automatic Baud Rate Detection (250kbps/500kbps)	✓	✓	✓
Output options include: Hardware Interfaces: Serial RS232, Serial RS422, CAN Data Protocols: Serial – NMEA 0183 / CAN – NMEA 2000®, J1939, ISOBUS Serial Data Transmission Code: ASCII	✓	✓	✓

NSN:
300WX — 6660-01-721-0519
300WX-IPX7 — 6660-01-721-3047
300WX-IPX7 Black — N/A



Understanding Dynamic True and Apparent Wind

Airmar's WeatherStation Instruments calculate both dynamic true and apparent wind speed and direction. Dynamic true wind is the wind relative to North but also corrected for the speed and direction of the vessel. WeatherStation WX instruments integrate a GNSS and 3-Axis compass, which allows for the calculation of the dynamic true wind speed and direction based upon the apparent wind, speed of the vehicle, and vehicle heading. Dynamic True wind measurement can be critical for any application where the platform is moving.



NMEA 2000® Cables and Connectors

Reliable networks start with reliable connections. Airmar's new NMEA 2000® cables and connectors are engineered for dependable performance, streamlined installation, and long-term durability in harsh marine environments. Manufactured using UL-certified cable and precision-molded waterproof connectors, this complete line delivers the quality installers expect — at a competitive price point.



Product Image	Part #	Product Description
	N2K-4T-CON	4-Way Tee Connector Designed for efficient NMEA 2000® network expansion, the 4-way tee connector allows multiple drop connections from a single backbone interface. By consolidating connection points into one compact component, it simplifies installation, reduces clutter, and lowers overall system complexity compared to using multiple individual tees. The result is a cleaner more cost-effective network build.
	N2K-T-CON	Standard Tee Connector The NMEA 2000® standard tee connector provides a secure connection point for adding a single device to the network backbone. Two female and one male connector enable easy integration with Airmar cable assemblies, including field-installable connectors. Use wherever a drop connection is required from the backbone to connect another device.
	N2K-FA-F	Field-Installable Female Connector The NMEA 2000® field-installable female connector allows installers to create custom-length drop or backbone cables in the field. Designed for quick termination and secure connections, it provides flexibility when modifying or extending network runs.
	N2K-FA-M	Field-Installable Male Connector The NMEA 2000® field-installable male connector allows installers to create custom-length drop or backbone cables in the field. Designed for quick termination and secure connections, it provides flexibility when modifying or extending network runs.
	N2K-RES-F	Female Termination Resistor The NMEA 2000® female termination resistor is installed at the end of the backbone to ensure proper network operation. Each NMEA 2000 network requires exactly two termination resistors — one at each end of the backbone — to maintain signal integrity and reliable communication.
	N2K-RES-M	Male Termination Resistor The NMEA 2000® male termination resistor is installed at the end of the backbone to ensure proper network operation. Each NMEA 2000 network requires exactly two termination resistors — one at each end of the backbone — to maintain signal integrity and reliable communication.
	N2K-PWR-TAP	Micro Power Tee The NMEA 2000® micro power tee provides a safe and efficient connection point for supplying power to an NMEA 2000 network. Designed for compact installations, it integrates easily into the backbone using micro-fit connectors for reliable plug-and-play network power distribution.
	N2K-0.5-BLK-CBL N2K-1.0-BLK-CBL N2K-2.0-BLK-CBL N2K-3.0-BLK-CBL N2K-4.0-BLK-CBL N2K-5.0-BLK-CBL N2K-6.0-BLK-CBL N2K-8.0-BLK-CBL N2K-10.0-BLK-CBL	NMEA 2000® Backbone/Drop Cables – .5 meters NMEA 2000® Backbone/Drop Cables – 1 meter NMEA 2000® Backbone/Drop Cables – 2 meters NMEA 2000® Backbone/Drop Cables – 3 meters NMEA 2000® Backbone/Drop Cables – 4 meters NMEA 2000® Backbone/Drop Cables – 5 meters NMEA 2000® Backbone/Drop Cables – 6 meters NMEA 2000® Backbone/Drop Cables – 8 meters NMEA 2000® Backbone/Drop Cables – 10 meters Airmar NMEA 2000® cables are manufactured using UL-certified cable and molded waterproof connectors to withstand harsh marine environments. Each cable contains five conductors within a single shielded jacket: power, ground, two data wires, and a drain wire bonded to the cable shield to protect signal integrity and minimize radio frequency interference.



Depth, Speed, Water Temperature, Pitch & Roll Multisensors

Our Smart® Multisensors deliver data via NMEA2000® to devices and systems. They are easily calibrated and configured by the user for optimal performance. Each sensor utilizes a plastic retractable housing for installation in metal or fiberglass hulls. The sensor is removable from the housing for fast cleaning or servicing.



TriSonic/ UDST820

Utilizes ultrasonic sensing instead of a paddlewheel to determine speed-thru-water.

- No moving parts to foul or wear out.
- Delivers depth, temperature and pitch & roll as listed in DST820 description.
- CE and PSTI compliant

DST820:

Uses a highly sensitive paddlewheel for industry-leading speed start up performance and high speed tracking. (Max 45 knots).

- Depth performance from 0.5m (1.6') to 100m (330')
- Water Temperature: -10° to 40°C (14° to 104°F)
- Pitch & Roll data updated 10 times per second
- CE and UK PSTI Compliant

Trisonic UDST820	Part #: UDST820-40-1
DST820	Part #: IDST820-40-01

EchoRange™ Smart™ Sensors Survey Transducers

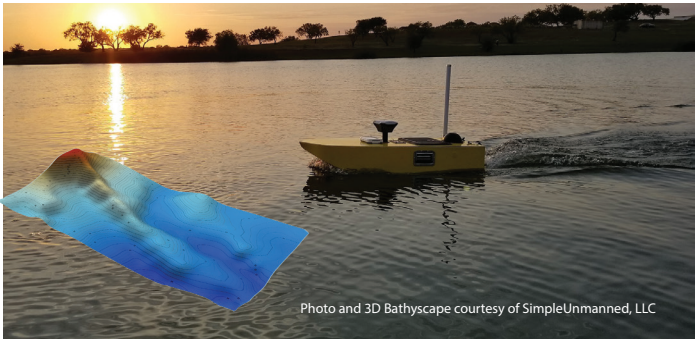
Available in Single and Dual Frequency Models

200kHz and 30/200kHz Transducers with Embedded Signal Processing

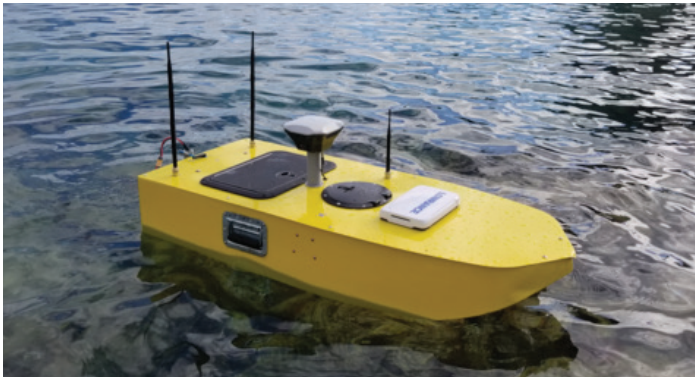
- Accurate measurement of water depth from 0.4m to 200m
- EchoRange™ transfers NMEA 0183 data in real time to a computer via RS422

Customizable Operation

The EchoRange™ can be successfully operated in most open water applications using the factory default settings. In other applications (such as when deployed in enclosures, or when using multiple devices, or when using with battery power) the user can optimize the EchoRange™ performance by changing one or some combination of the factory default settings.

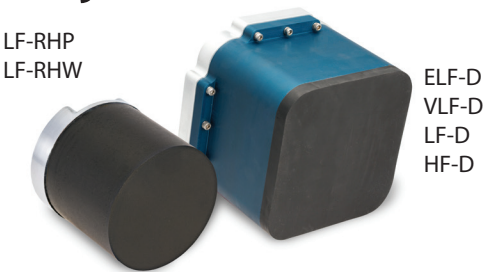


M195	Part #: M195
SS510	Part #: SS510



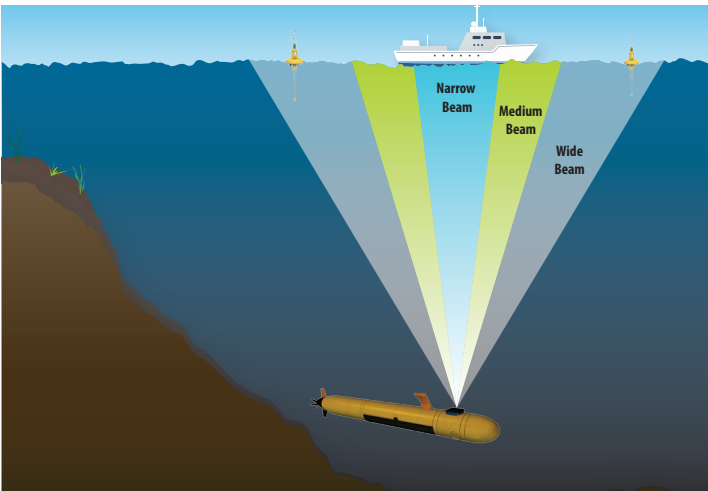
Acoustic Communications (ACOMMs) Projectors

Airmar’s family of Compact High Bandwidth and Long Range High Bit Rate ACOMMs push the boundaries with unmatched bandwidth for transmit and receive, while retaining a compact profile. These standard products are acoustically designed for a broad array of applications and can also be customized to meet more specific requirements.



Part #	ELF-D	VLF-D	LF-D	HF-D	LF-RHW	LF-RHP
Bandwidth (-3 dB)	5-12kHz (90%)	10-22kHz (81%)	35-80kHz (85%)	65-135kHz (78%)		
Bandwidth (-6 dB)					20-50kHz (95%)	23-50kHz (80%)
TVR	120 dB	136 dB	135 dB	141 dB	130 dB	135 dB
Broadband Source Level (max)	175 dB	191 dB	193 dB	196 dB	185 dB	190 dB
Beamwidth ¹	60°	60°	30°	30°	80 deg	80 deg
Horizontal Beamwidth					Omni	Omni
Duty Cycle	100%	100%	100%	100%	100%	100%
Depth ²	6000m (19685')	6000m (19685')	6000m (19685')	6000m (19685')	6000m (19685')	6000m (19685')

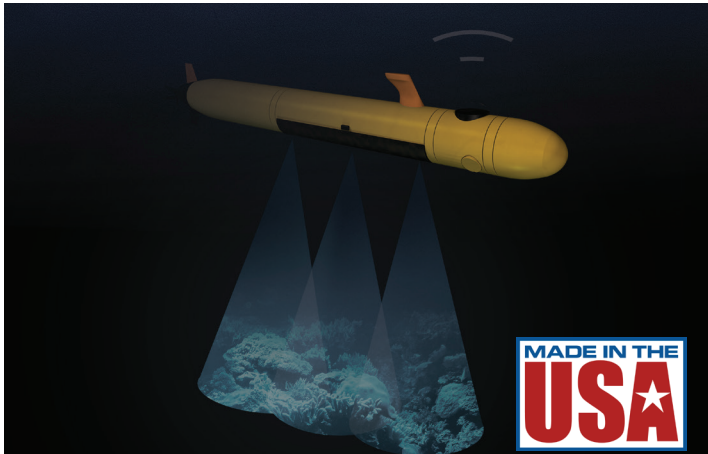
Notes:
¹ Beamwidth at center frequency
-D signifies 6000 m version. 10000 m version, not shown, has higher performance.
Please inquire for options.
All specifications nominal.



200m Mini Altimeter Kit Smart™ Sensor

The 200m Mini Altimeter Kit is an ultra-compact altimeter kit designed for measuring height off the sea floor and underwater structures. Pressure rated for up to 1000 meters, the 200m Mini Altimeter delivers excellent performance from a small, lightweight configuration optimized for use on UUVs and AUVs. The sensor is available in either 170kHz or 200kHz.

With low power consumption of just 150 mA at 12 V, the 200m Mini Altimeter is perfect for power-limited vessels.



200m Mini Altimeter	Part #: 200M MAK
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SmartFlex™ System

SmartFlex Modules provide a simple and cost-effective way to connect and manage a variety of analog and digital sensors and devices – regardless of their protocols. This results in the creation of an intelligent and capable network where all data is readily accessible. SmartFlex can directly connect to existing or new analog or digital sensors to provide data to an NMEA 2000® network for viewing on a PC or multi-function display.

Connect and control the following sensors

- Diesel fuel flow
- Engine J1939/J1708/J1587
- Temperatures
- Tank levels
- Voltage

View Digital Switching & Automation:

- Alerting & automation
- Custom alarms & notifications
- Timers & counters
- Fully programmable actions
- Relay control

Network Bridging & Filtering Diagnostics:

- BUS traffic in human readable format
- Data recorder
- Value logging
- Searchable network traffic
- Network traffic replay

SmartFlex Diesel Flow Meters

SmartFlex DFMs are for use with Airmar's SmartFlex system where they are configured using the SmartFlex View interface. The derived data is then available via CAN/NMEA 2000® for system-wide monitoring and control, including the configuration of alerts, automation and more. SmartFlex Diesel Flow Meter data includes instant and total fuel consumption, hourly fuel consumption in forward and return line, total fuel consumption in idling and optimal mode of engine operation, and total fuel consumption in overload and negative mode of flow meter operation (return exceeds supply).



SmartFlex	Part #: ASM-CES
	Part #: ASM-CES-T1
	Part #: ASM-CES-T2

SmartFlex™ Diesel Flow Meters

Part #	Variations	Chambers	Working Range	Weight	Mounting L x W	Thread Type
DFM-50-SA	-L	Single	1 – 50 LPH ±1% (.2 – 2 GPH ±1%)	0.96 kg (2.11 lbs)	90 x 70 mm (3.54" X 2.75")	M14 x 1.5
DFM-100-SA	-L	Single	2 – 100 LPH ±1% (.5 – 26 GPH ±1%)	0.96 kg (2.11 lbs)	90 x 70 mm (3.54" X 2.75")	M14 x 1.5
DFM-250-SA	-L	Single	5 – 250 LPH ±1% (1 – 66 GPH ±1%)	1.30 kg (2.86 lbs)	90 x 70 mm (3.54" X 2.75")	M14 x 1.5
DFM-500-SA		Single	10 – 500 LPH ±1% (2 – 132 GPH ±1%)	1.29 kg (2.84 lbs)	90 x 70 mm (3.54" X 2.75")	M16 x 1.5
DFM-1000-SA-L	F, -SB	Single	20 – 1000 LPH ±1% (5 – 264 GPH ±1%)	2.90 kg (6.39 lbs)	42 x 32 mm (1.65" X 1.25")	3/4" BSP
DFM-2000-SA-L	F, -SB	Single	40 – 2000 LPH ±1% (10 – 528 GPH ±1%)	3.12 kg (6.87 lbs)	42 x 16 mm (1.65" X .62")	1" BSP
DFM-4000-SA-L	F, -SB	Single	80 – 4000 LPH ±1% (21 – 1056 GPH ±1%)	5.64 kg (12.43 lbs)	52 x 20 mm (2.04" X .78")	1 1/4" BSP
DFM-100-DA		Dual	10 – 100 LPH ±1..3% (.5 – 26 GPH ±1%)	1.50 kg (3.30 lbs)	135.8 x 45 mm (5.34" X 1.77")	M14 x 1.5
DFM-300-DA		Dual	50 – 300 LPH ±1..3% (13 – 79 GPH ±1%)	2.16 kg (4.76 lbs)	152.8 x 45 mm (6.01" X 1.77")	M14 x 1.5
DFM-600-DA		Dual	100 – 600 LPH ±1..3% (26 – 158 GPH ±1%)	2.07 kg (4.56 lbs)	155.8 x 45 mm (6.13" X 1.77")	M16 x 1.5

Variations available by special order: F (Flange mount) / -L (LCD display) / -SB (Brass housing)

Specifications in this table are for versions with threaded connection versions with alloy housings

Accuracy can vary according to ratio of feed chamber and reverse chamber flow rate



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MILITARYDefense_SHEET_rB 06/03/26

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