

In-Hull Transducers

P79



M260



R111LH



R299LH



600 W (Baseline Model)

- Adjustable from 2° to 22° of deadrise
- Epoxies to aluminum hulls under 3.8 mm (0.125") thick
- 600 Watts
- Depth Only
- In-Hull, Plastic Housing
- 50/200 kHz
- Q at 50 kHz—28
- Q at 200 kHz—31
- 7.6 m (25') cable with OEM connector
- Beam Width:
 - 50 kHz—45°
 - 200 kHz—12°
- Maximum Depth Range:
 - 50 kHz—206 m to 294 m (700' to 1,000')
 - 200 kHz—118 m to 180 m (400' to 600')
- Boat Size: Up to 8 m (25')

1 kW, High-Definition Digital Broadband

- Broadband Ceramic Technology:
 - Crystal clear image detail and resolution
 - Distinguishes individual fish targets and fish tight to the bottom
- 1,000 Watts
- Depth Only
- In-Hull, Plastic Housing
- Separate ceramics for 50 kHz and 200 kHz
- Q at 50 kHz—8
- Q at 200 kHz—8
- 12 m (39') cable with OEM connector
- Beam Width:
 - 50 kHz—19°
 - 200 kHz—6°
- Maximum Depth Range:
 - 50 kHz—529 m to 735 m (1,800' to 2,500')
 - 200 kHz—206 m to 294 m (700' to 1,000')
- Boat Size: 8 m (25') and up

Tunable, Broadband Transducers for FM & CHIRP Enabled Sounders

- 2,000 Watts RMS, 20 to 30 continuous Watts
- Depth Only
- Thru-Hull, Epoxy Housing
- Operating Frequencies:
 - LF—38 to 75 kHz
 - HF—130 to 210 kHz
- 15 m (50') cable
- Beamwidth (Adjustable):
 - LF—11° x 17° to 6° x 11°
 - HF—7° to 5°
- Boat Size: 12 m (40') and up
- Optionally available as R199LM, low & medium-frequency (85 to 135 kHz)
- 2,000 to 3,000 Watts RMS, 30 to 60 continuous Watts
- Depth Only
- In-Hull, Epoxy Housing
- Operating Frequencies:
 - LF—28 to 60 kHz
 - HF—130 to 210 kHz
- 15 m (50') cable
- Beamwidth (Adjustable):
 - LF—11° x 17° to 6° x 11°
 - HF—7° to 5°
- Boat Size: 9 m (30') and up
- Optionally available as R299LM, low & medium-frequency (85 to 135 kHz)

In-Hull Transducers

- Designed for all types of solid fiberglass hulled boats**
- Depth Only
- Mounts in a tank inside the hull
- Non-toxic anti-freeze (propylene glycol) is used to fill the tank
- Installation and servicing can be done while the vessel is in the water
- No holes to drill through the hull
- Great high-speed performance up to 35 knots (40 MPH)
- Hull Deadrise Angle:
 - 0° to 22°—P79, P89, R199
 - 0° to 30°—M260



*The power rating is for conventional tone burst operation at 1% duty cycle. For longer duty cycle, Chirp, and FM operation and power rating for Broadband Transducers, contact Airmar.

AIRMAR
TECHNOLOGY CORPORATION

Sensing Technology

www.airmar.com

P79

M260

R111LH

R299LH



50 kHz/200 kHz-A		
Number of Elements and Configuration		
Beam Width (@-3 dB)	45°	12°
RMS Power (W)	600 W	600 W
TVR	155 dB	164 dB
RVR	-174 dB	-184 dB
FOM	-31 dB	-21 dB
Q	28	31
Impedance	200 Ω	375 Ω

50 kHz-AE / 200 kHz-BH		
Number of Elements and Configuration		
Beam Width (@-3 dB)	19°	6°
RMS Power (W)	1 kW	1 kW
TVR	162 dB	175 dB
RVR	-173 dB	-183 dB
FOM	-14 dB	-10 dB
Q	8	8
Impedance	250 Ω	90 Ω

	38-75 kHz	130-210 kHz
Elements		
Pulse Power	2 kW	2 kW
Nominal TVR	169 dB	177 dB
Nominal RVR	-178 dB	-184 dB
Nominal FOM	-11 dB	-7 dB
Impedance	100-250 Ω	100-250 Ω

	R299	28-60 kHz	130-210 kHz
Elements			
Pulse Power	3 kW	2 kW	
Nominal TVR	170 dB	173 dB	
Nominal RVR	-176 dB	-180 dB	
Nominal FOM	-6 dB	-7 dB	
Impedance	100-225 Ω	100-225 Ω	

BEAM DIAMETER VS DEPTH		
Depth	50 kHz	200 kHz
9 m (30')	8 m (25')	2 m (6')
30 m (100')	25 m (83')	6 m (21')
122 m (400')	101 m (331')	26 m (84')
305 m (1,000')	252 m (828')	64 m (210')

BEAM DIAMETER VS DEPTH		
Depth	50 kHz	200 kHz
9 m (30')	3 m (10')	0.9 m (3')
30 m (100')	10 m (34')	3 m (11')
122 m (400')	41 m (134')	13 m (42')
305 m (1,000')	102 m (335')	32 m (105')

