

In-Hull Transducers

P79



M260



R199



R299, R399



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

2 kW, High-Definition Digital Broadband

- Broadband Ceramic Technology:
 - Crystal clear image detail and resolution
 - Distinguishes individual fish targets and fish tight to the bottom
- 2,000 Watts
- Depth Only
- In-Hull, Epoxy Housing
- Separate ceramics for 50 kHz and 200 kHz
- Q at 50 kHz—3
- Q at 200 kHz—2
- 12 m (39') cable with OEM connector
- Beamwidth:
 - 50 kHz—8° x 17°
 - 200 kHz—5°
- Maximum Depth Range:
 - 50 kHz—735 m to 1,176 m (2,500' to 4,000')
 - 200 kHz—235 m to 353 m (800' to 1,200')
- Boat Size: 9 m (30') and up

2 kW to 3 kW, High-Definition Digital Broadband

- Broadband Ceramic Technology:
 - Crystal clear image detail and resolution
 - Distinguishes individual fish targets and fish tight to the bottom
- 2,000 to 3,000 Watts
- Depth Only
- In-Hull, Epoxy Housing
- Separate ceramics for 50 kHz and 200 kHz
- Q at 33 to 60 kHz—3 (R299)
- Q at 25 to 45 kHz—3 (R399)
- Q at 130 to 210 kHz—3 (R299 and R399)
- 12 m (39') cable with OEM connector
- Beamwidth (Adjustable):
 - LF—11° x 17° to 6° x 11°
 - HF—7° to 5°
- Maximum Depth Range:
 - LF—914 m to 1,372 m (3,000' to 4,500')
 - HF—235 m to 353 m (800' to 1,200')
- Boat Size: 9 m (30') and up

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



P79

M260

R199

R299, R399



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	-21
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	-10
Q	8	8
Impedance	250 Ω	90 Ω

50 kHz-AFlq / 200 kHz-BFlq		
Number of Elements and Configuration		
Beamwidth (@-3 dB)	8° x 17°	5°
RMS Power (W)	2 kW	2 kW
TVR	167 dB	177 dB
RVR	-174 dB	-182 dB
FOM	-9	-6
Q	3	2
Impedance	100 Ω	100 Ω

R299-33-60 kHz / 130-210 kHz		
Number of Elements and Configuration		
RMS Power (W)	3 kW	2 kW
TVR	171 dB @ 50 kHz	172 dB @ 200 kHz
RVR	-177 dB @ 50 kHz	-184 dB @ 200 kHz
FOM	-7 @ 50 kHz	-12 @ 200 kHz
Q	3 @ 50 kHz	3 @ 200 kHz
Impedance	165 Ω @ 38 kHz	148 Ω @ 50 kHz
	169 Ω @ 140 kHz	208 Ω @ 60 kHz 250 Ω @ 160 kHz 314 Ω @ 200 kHz

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')

BEAM DIAMETER VS DEPTH		
Depth	50 kHz	200 kHz
30 m (100')	4 m x 9 m (14' x 30')	2.7 m (9')
122 m (400')	17 m x 36 m (56' x 120')	11 m (35')
245 m (800')	34 m x 73 m (112' x 240')	21 m (70')
305 m (1,000')	43 m x 91 m (140' x 300')	27 m (88')

R399-25-45 kHz / 130-210 kHz		
Number of Elements and Configuration		
RMS Power (W)	3 kW	2 kW
TVR	169 dB @ 50 kHz	172 dB @ 200 kHz
RVR	-167 dB @ 50 kHz	-184 dB @ 200 kHz
FOM	-5 @ 50 kHz	-12 @ 200 kHz
Q	3 @ 50 kHz	3 @ 200 kHz
Impedance	187 Ω @ 28 kHz	185 Ω @ 38 kHz
	169 Ω @ 140 kHz	228 Ω @ 45 kHz 250 Ω @ 160 kHz 314 Ω @ 200 kHz

