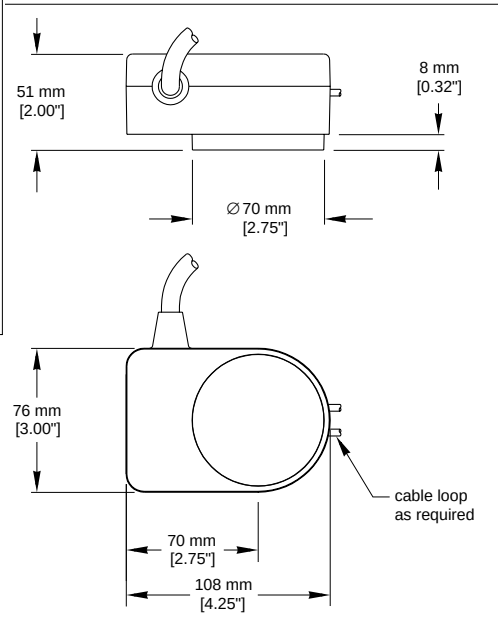


M153

50 kHz/600 W
200 kHz/600 W

Compact, single-element transducer for trawl monitoring and other applications. These high-pressure rated transducers are usually connected to the vessel via reinforced coaxial cable. They can be used in pairs to enable sounding upward and downward.



Features

- Easy transducer connections to trawl cable using MacArtney SUBCONN® underwater connectors
- Transducers pressure rated to 600 m (2,000')
- Transformers assure correct impedance match to echosounder
- Designed to be mounted in a flooded pod
- SEALCAST™ construction
- Stainless steel internal chassis

Specifications

- Housing material: cast urethane
- Standard cable type: C37—shielded twisted pair (2–18 AWG) with braided shield, black neoprene jacket, 9 mm ($\frac{3}{8}$ ") diameter
- Standard cable length: 0.4 m (1.5')
- Weight: 0.7 kg (1.5 lb.)

Options

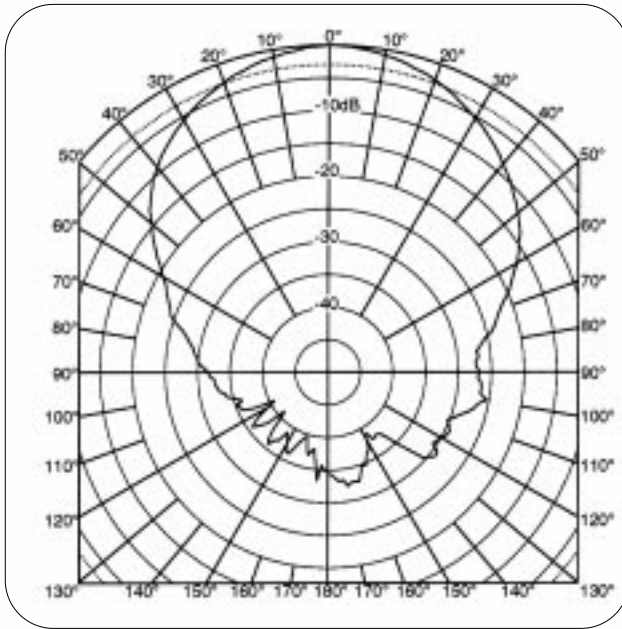
- Interface to catch monitor via coupling transformer
- Cable without underwater connector
- Bulkhead connector on transducer
- Other frequencies and impedances
- Pressure ratings to 6,000 m (20,000')

Applications

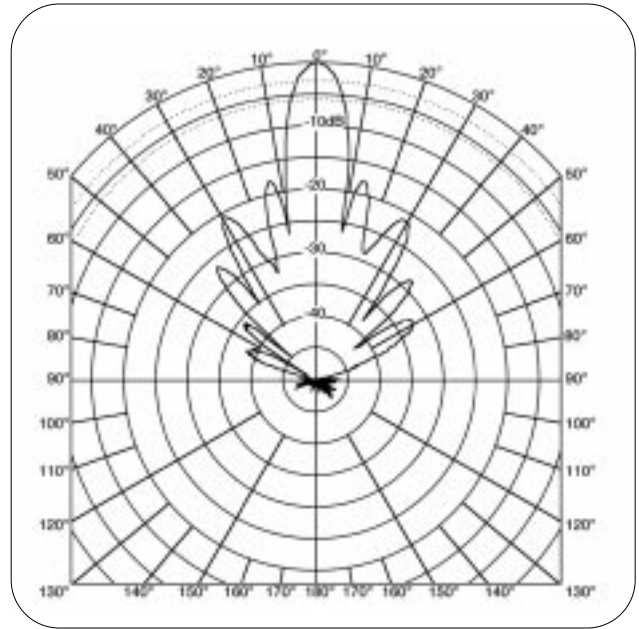
- Trawl monitoring

COMMERCIAL FISHING • Trawl Mount

50 kHz – C



200 kHz – G



————— FORE-AFT AXIS
 - - - - - PORT-STARBOARD AXIS

PERFORMANCE DATA

Frequency ¹ – Airmar Piezoceramic Designator ²	50 kHz – C	200 kHz – G
Element Material ³ /Diameter (mm)	PZT/L/51	BT/51
Element Configuration (not to scale)		
Beam Width at –3 dB	46°	8°
Q (fr/Δ f @ –3 dB) ⁴	14	30
Rated RMS Power (W)	500	600
Voltage Responses: Transmit/Receive ⁵ (dB)	160/–185	176/–180
Figure of Merit (Insertion Loss) ⁶ (dB)	–28	–11
Balanced Impedance ⁷ : Resistance, R _p (ohm)	90 ¹²	50 ¹²
Capacitance, C _p (pF)	0	0
Series Impedance [R – jX] ⁸ (ohm)	90 – j0	50 – j0
Acoustic Window Material	Urethane	Urethane

Note: See page c 3 for footnotes.