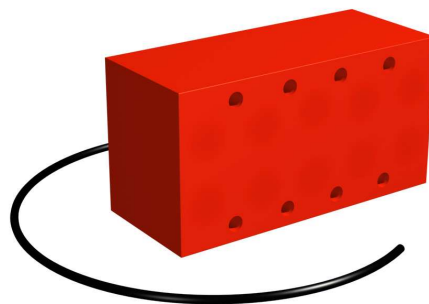


- 12 KHZ DUAL BEAM
- LONG RANGE ECHO SOUNDER
- NAVIGATION : SURVEYING
- SILT PENETRATION
- DEEP WATER CAPABILITY
- NEPTCAST® PU MOULDED HOUSING

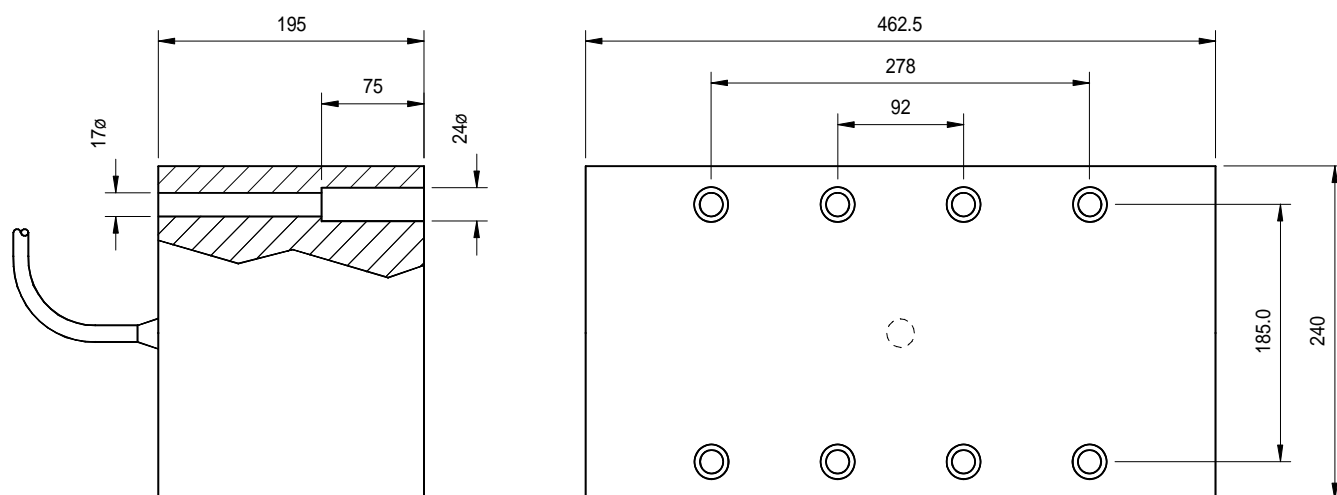


The TII9 transducer is a 12 kHz dual beam, ten element array designed for long range echo sounding. The elements are nodal mounted pistons, selected by a four core cable as a 2 x 5 group for the narrow beam and a 2 x 3 group for the wide beam.

Nodal mounted elements are extremely robust, capable of withstanding high slamming forces, highly efficient and provide an excellent front to back ratio.

The transducer housing is based upon the NEPTCAST® system. Developed by Neptune's engineers, NEPTCAST® is a single injection moulding process that produces a "one piece" all moulded, robust, lightweight and corrosion free transducer body.

Originally designed for mounting directly onto the hull the TII9 is capable of withstanding a pressure of 85 bar and has been successfully used in towed bodies down to 750 metres.



All dimensions in mm

MODEL TII9

Dual Beam Transducers

Technical Specification

Frequency	I2		kHz
Beam Width	Wide	Narrow	Selectable
Beam Angle (-3dB)	40 x 26	40 x 14	Degrees
Transmit Sensitivity	160	165	dB re uPa/V @ 1m
Receive Sensitivity	-168	-168	dB re V/uPa
Side Lobe Level	-13.5	-13.5	dB
Front / Back Ratio	-30	-30	dB
Max Input Power	1600	3000	Watts Pulsed
Bandwidth	2.0	2.0	kHz
Impedance	250	150	Ohms
Cable Length	10 Metres Standard (Additional lengths supplied to order)		
Cable Type	Polyurethane Ø12mm 4 Core Screened		
Storage Temperature	-40 to +80 °C		
Operating Temperature	-5 to +70 °C		

Data illustrated is taken from actual in-water measurements