MODEL 77 SERIES

- **DUAL FREQUENCY**
- **30 LF / HF COMBINATIONS**
- **FISHING, NAVIGATION & SURVEYING**
- **HULL MOUNTING**
- **LOW SIDE-LOBES**
- **ROBUST NYLON HOUSING**

The 77 SERIES hull-mounted dual frequency transducers offer both high and low frequency sections combined in a single unit. The ability to specify a wide combination of frequencies in the same basic unit provides the echo-sounder manufacturer and hydrographer with the flexibility to select a system to meet the desired survey requirements of resolution, range, silt penetration and beam pattern. The high impact strength nylon body provides a mechanically robust and corrosion free transducer.

The 77 SERIES is available with or without acoustic calibration, traceable to National Standards.

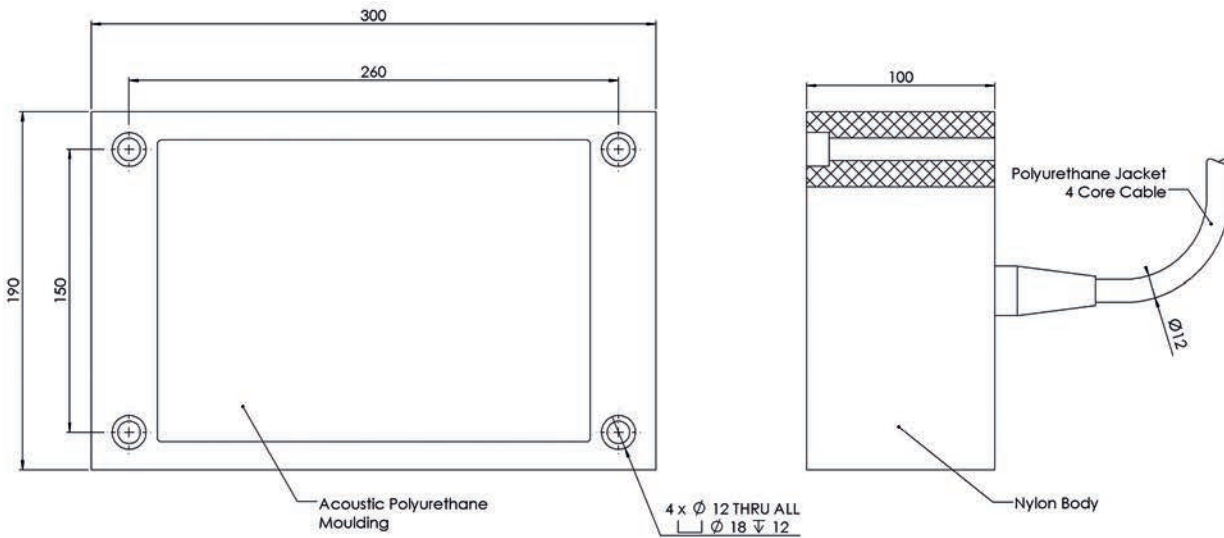## TECHNICAL SPECIFICATION - LOW FREQUENCY SECTION

Frequency Options	24	28	30	33	38	50	kHz
Beam Angle (-3dB)	23	19	18	16.5	14	11	Degrees Conical
Transmit Sensitivity	167	168	168	168	166	171	dB re 1µPa/V @ 1m
Receive Sensitivity	-173	-173	-175	-175	-176	-178	dB re 1V/µPa
Transmit Voltage / Duty Cycle (Abs. Max)	300	300	325	325	325	300	Vrms at 10%
Bandwidth	2.5	2.8	3.0	3.5	3.5	6.0	kHz
Nominal Impedance	75	75	100	100	100	75	Ohms

TECHNICAL SPECIFICATION - HIGH FREQUENCY SECTION

Frequency Options	160	200	210	300	600	-	kHz
Beam Angle (-3dB)	12	8	7.5	7	5	-	Degrees Conical
Transmit Sensitivity	173	170	170	172	172	-	dB re 1µPa/V @ 1m
Receive Sensitivity	-191	-193	-193	-193	-193	-	dB re 1V/µPa
Transmit Voltage / Duty Cycle (Abs. Max)	150	150	175	150	150	-	Vrms at 10%
Bandwidth	24	15	15	45	90	-	kHz
Nominal Impedance	70	70	100	75	75	-	Ohms

Transducer impedance can be adjusted to suit customers specification

MODEL 77 SERIES

All dimensions in mm

MECHANICAL SPECIFICATION

Operating Depth	300m
Weight Air/Water including 10m cable	10.4 kg / 3.6 kg
Operating Temperature	-5 to +40 °C
Storage Temperature	-40 to +80 °C
Cable Type	Ø12mm Polyurethane Jacket, Screened 4 Core
Cable Length	10m Standard (Additional lengths supplied to order)
Connector	Not fitted as standard (Optional Customer Specific)