

Streamer Hydrophones



Key features

- Filled with silicon oil for neutral buoyancy
- Supplied with robust 50m tow leader as standard
- Complete with pre-amplifier
- Standard models and customised units with grouped elements available
- Medium frequency and low frequency versions

Streamer Hydrophones Overview

High quality streamer hydrophones available as 1, 8, 12 or 20 element MF designs and 24 element LF design. Each is supplied with a pre-amplifier and connectors for standard seismic acquisition systems.

Technical Specification

Streamer hydrophone, fluid filled with multi-elements

Model number	HYD-000/01 (50m)	HYD-360/08 (50m)
Tow leader	50m	50m
Array Tube type	Polyurethane	Polyurethane
Array tube length	4.5m	4.5m
Number of elements	1	8
Element spacing	n/a	360mm
Array sensitivity	-187dB ref 1V per μ Pa	-169dB ref 1V per μ Pa
Fluid type	Polydimethylsiloxane, PMX561	Polydimethylsiloxane, PMX561
Power	Battery, 9V alkaline, PP3/MNI604	Battery, 9V alkaline, PP3/MNI604

Frequency response	140Hz to 10kHz (-3dB)	300Hz to 4kHz (-3dB)
Signal output	Up to 8V peak to peak	Up to 8V peak to peak
Preamp	Single ended, fixed gain	Single ended, fixed gain
Connector type	BNC, 50/75 ohm cable can be used	BNC, 50/75 ohm cable can be used

ELEMENTS

Dimensions	55 x 16 x 10 mm	55 x 16 x 10 mm
Sensitivity	-187dB ref 1V per μ Pa	-187dB ref 1V per μ Pa
Depth recoverable	30m max	30m max
Operating depth	Typical 10m maximum	Typical 10m maximum
Type	Non acceleration cancelling	Non acceleration cancelling
Resonance	@ 9 kHz	@ 9 kHz

Model number	HYD-250/12 (50m)	HYD-150/20 (50m)
Tow leader	50m	50m
Array Tube type	Polyurethane	Polyurethane
Array tube length	4.5m	4.5m
Number of elements	12	20
Element spacing	250mm	150mm
Array sensitivity	-165dB ref 1V per μ Pa	-161dB ref 1V per μ Pa
Fluid type	Polydimethylsiloxane, PMX561	Polydimethylsiloxane, PMX561
Power	Battery, 9V alkaline, PP3/MNI604	Battery, 9V alkaline, PP3/MNI604
Frequency response	275Hz to 6kHz (-3dB)	250Hz to 10kHz (-3dB)
Signal output	Up to 8V peak to peak	Up to 8V peak to peak
Preamp	Single ended, fixed gain	Single ended, fixed gain
Connector type	BNC, 50/75 ohm cable can be used	BNC, 50/75 ohm cable can be used

ELEMENTS

Dimensions	55 x 16 x 10 mm	55 x 16 x 10 mm
Sensitivity	-187dB ref 1V per μ Pa	-187dB ref 1V per μ Pa
Depth recoverable	30m max	30m max
Operating depth	Typical 10m maximum	Typical 10m maximum
Type	Non acceleration cancelling	Non acceleration cancelling
Resonance	@ 9 kHz	@ 9 kHz

Model number	HYD-365/20 (50m)	HYD-610/24 (50m)
Tow leader	50m	50m
Array Tube type	Polyurethane	Polyurethane
Array tube length	10m	14m
Number of elements	20	24
Element spacing	365mm	610mm
Array sensitivity	-161dB ref 1V per μ Pa	-162dB ref 1V per μ Pa
Fluid type	Polydimethylsiloxane, PMX561	Polydimethylsiloxane, PMX561
Power	Battery, 9V alkaline, PP3/MNI604	24Vdc
Frequency response	100Hz to 4kHz (-3dB)	50Hz to 2500Hz (-3dB)
Signal output	Up to 8V peak to peak	Up to 8V peak to peak
Preamp	Single ended, fixed gain	Differential output, link adjustable gain
Connector type	BNC, 50/75 ohm cable can be used	BNC, 50/75 ohm cable can be used

ELEMENTS

Dimensions	55 x 16 x 10 mm	53 x 20mm
Sensitivity	-187dB ref 1V per μ Pa	-192dB ref 1V per μ Pa
Depth recoverable	30m max	30m max
Operating depth	Typical 10m maximum	Typical 10m maximum
Type	Non acceleration cancelling	Acceleration cancelling
Resonance	@ 9 kHz	@ 9 kHz

Other element configurations and tow leader lengths are available to order