

Applied Acoustic Engineering Ltd

Marine House, Marine Park, Gapton Hall Road, Great Yarmouth NR31 0NB, United Kingdom T +44 (0)1493 440355 E general@appliedacoustics.com W appliedacoustics.com

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 µPa	-169dB ref 1V per µPa
Fluid type	Polydimethylsiloxane, PMX561	Polydimethylsiloxane, PMX561
Power	Battery, 9V alkaline, PP3/MN1604	Battery, 9V alkaline, PP3/MN1604

Frequency response	140Hz to 10kHz (-3dB)	140Hz 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 µPa	-187dB ref 1V per µPa
Depth recoverable	30m max	30m max
Operating depth	Typical 10m maximum	Typical 10m maximum
Туре	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 µPa	-161dB ref 1V per µPa
Fluid type	Polydimethylsiloxane, PMX561	Polydimethylsiloxane, PMX561
Power	Battery, 9V alkaline, PP3/MN1604	Battery, 9V alkaline, PP3/MN1604
Frequency response	140Hz to 10kHz (-3dB)	140Hz 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

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



Due to continual product improvement specification information may be subject to change without notice. Streamer Hydrophones/ Issue 1 October 2022 ©aae technologies Ltd.

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 µPa	-1621dB ref 1V per µPa
Fluid type	Polydimethylsiloxane, PMX561	Polydimethylsiloxane, PMX561
Power	Battery, 9V alkaline, PP3/MN1604	24Vdc
Frequency response	140Hz to 10kHz (-3dB)	115Hz to 7.2KHz (-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 µPa	-192dB ref 1V per µPa
Depth recoverable	30m max	30m max
Operating depth	Typical 10m maximum	Typical 10m maximum
Туре	Non acceleration cancelling	Acceleration cancelling
Resonance	@ 9 kHz	@ 9 kHz

Other element configurations and tow leader lengths are available to order



Due to continual product improvement specification information may be subject to change without notice. Streamer Hydrophones/ Issue 1 October 2022 ©aae technologies Ltd.