

PREAMPLIFIED HYDROPHONES

PRODUCT IDENTIFICATION

SMID design and produce a large choice of pre-amplifiers and pre-amplified hydrophones for all underwater applications.

CUSTOMIZED DEVICES

Technical data stated in this specification are referred to standard products. Flexibility of SMID design allows to easily customize the products following Customer's requirements.

ADVANTAGES

- Very low equivalent input noise
- Small size
- Low power
- Optimum performance-price ratio



The characteristics of analogic pre-amplifier permits to detect sound measurement below SEA STATE "0"

TECHNICAL SPECIFICATIONS



Seismic



Standard



High Frequency

ANALOGIC PRE-AMPLIFIER	Seismic	Standard	High Frequency
Linear frequency range	2 Hz to 50 KHz	20 Hz to 120 KHz	20 Hz to 1,2 MHz
Gain (factory programmable)	20 dB to 80 dB	20 dB to 60 dB	20 dB to 60 dB
Noise ref to input (3 KHz - G ≥ 40 dB)	5 nV/√Hz	5 nV/√Hz	5 nV/√Hz
For very low noise applications (3 KHz - G = 60 dB)		1 nV/√Hz	1 nV/√Hz
Output	Differential	Differential	Differential

PREAMPLIFIED HYDROPHONES	Seismic	Standard	High Frequency
Linear frequency range	2 Hz to 15 KHz	20 Hz to 80 KHz	20 Hz to 480 KHz
Receiving sensitivity (Electronic Gain = 40 dB)	-160 dBre 1V/μPa	-170 dBre 1V/μPa	-177 dBre 1V/μPa
Noise ref to input (3 KHz - G ≥ 40 dB)	5 nV/√Hz	5 nV/√Hz	5 nV/√Hz
For very low noise applications (3 KHz - G = 60 dB)		1 nV/√Hz	1 nV/√Hz
Output	Differential	Differential	Differential