GP1280MR Hydrophone

www.colmaritalia.it

The GP1280MR is a preamplified, omnidirectional hydrophone, a professional tool suitable for a wide range of applications and specially designed for log term deployments. The resin-steel sandwich structure of the body minimises exposed metal parts and related corrosion issue. The pig tail provide a direct connection to the cable. Low self noise and high sensitivity makes it especially suited for ambient noise measurements and recording the acoustic signature of mammals.

- High sensitivity
- Low self noise (“ below sea state zero”)
- Wide frequency range
- Calibration input
- Single or balanced output
- Customizable in gain, filtering, connector and cable type.
- Long term deployment, corrosion proof

Working band:	5-90.000 Hz
High pass filter on preamplifier :	Customizable (on demand)
Balanced output sensitivity:	-163 dB re 1V / uPa @ 5kHz (customizable)
Single output sensitivity:	-169 dB re 1V / uPa @ 5kHz (customizable)
Directivity :	Spherical - Omnidirectional
Max working depth :	1000 m
Gain @5kHz:	30 dB (single output), 36dB (balanced output)
Equivalent input acoustic noise @5kHz:	32 dB re 1uPa / sqrtHz
Input impedance:	10 MOhm
Supply voltage range:	11.5-30 Vdc
Current consumption:	13 mA @ 12 Vdc
Output voltage swing:	6Vpp (single output), 12 Vpp (balanced output)
Weight in air:	200 gr
Body construction:	Stainless steel AISI316 or POMC + internal steel core
Dimensions:	165 x 33,5 mm
Packaging:	Preformed Foam

CO.L.MAR. S.r.l. via delle Pianazze, 74 - 19136 La Spezia (Italy)
Tel +39 0187 982590 Fax 943461 P.I.00742150113
e-mail colmar@colmaritalia.it www.colmaritalia.it

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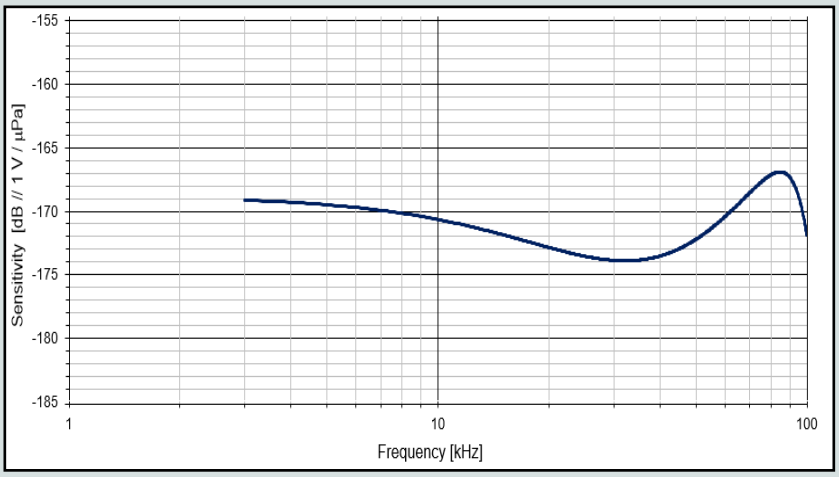
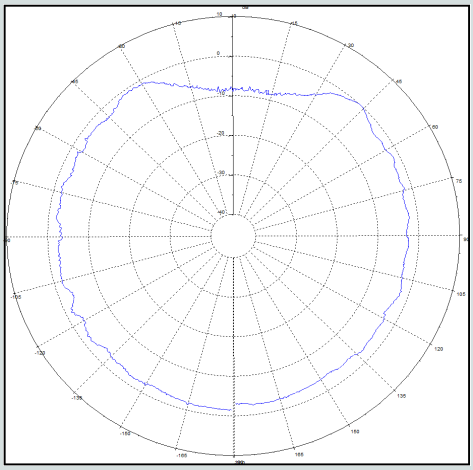
Receiving sensitivity (single output)

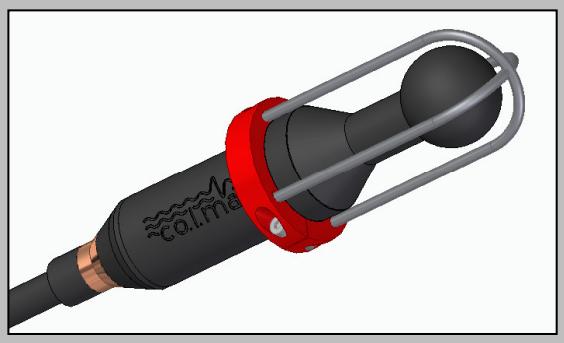


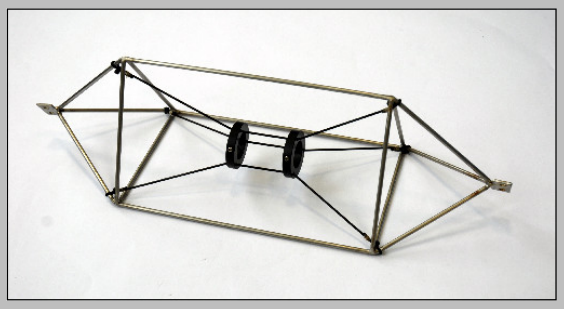
Vertical directivity pattern @ 60kHz

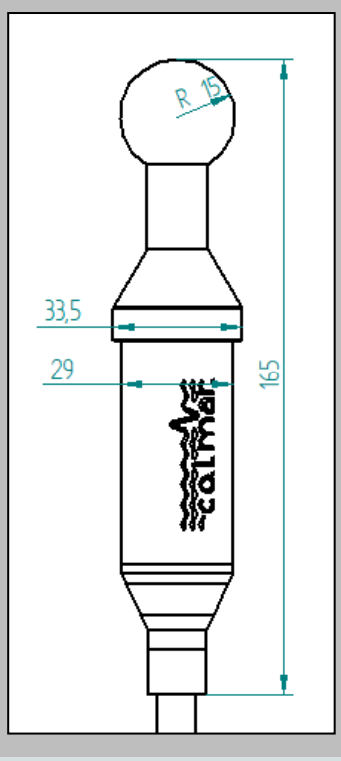


Accessories and optional configurations

- Protective frame
- Protective frame with suspension system for vibration damping
- Portable and rugged receiving unit fitted with variable gain adjustment, rechargeable battery, audio output, headphones output with volume knob, calibration signal.
- Low Power version (from 3.1 Vdc to 5.5 Vdc, supply <5mA).
- Custom cable lengths, type and connectors.







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