Teledyne RESON

Hydrophone TC4013 Miniature Reference Hydrophone

The TC4013 offers a usable frequency range of 1Hz to 170kHz and a high sensitivity relative to its size. It furthermore provides uniform omnidirectional sensitivities in both horizontal and vertical planes up to high frequencies. The TC4013 is an excellent transducer for making absolute sound measure-ments and calibrations within a broad frequency range. It can also be applied as an omnidirectional reference projector.

The overall characteristics makes TC4013 extremely applicable for laboratory as well as industrial uses.

NBR means Nitrile Rubber

The NBR rubber is first of all resistant to sea and fresh water but also resistant to oil. It is limited resistant to petrol, limited resistant to most acids and <u>will be destroyed</u> by base, strong acids, halogenated hydrocarbons (carbon tetrachloride, trichloroethylene), nitro hydrocarbons (nitrobenzene, aniline), phosphate ester hydraulic fluids, Ketones (MEK, acetone), Ozone and automotive brake fluid.

TECHNICAL SPECIFICATIONS

Usable Frequency range:	1Hz to 170kHz
Receiving Sensitivity:	-211dB ±3dB re 1V/µPa
Transmitting Sensitivity:	130dB ±3dB re 1µPa/V at 1m at 100kHz
Horizontal Directivity Pattern:	Omnidirectional ±2dB at 100kHz
Vertical Directivity Pattern:	270° ±3dB at 100kHz
Nominal capacitance:	3.4nF
Operating depth:	700m
Survival depth:	1000m
Operating temperature range:	-2°C to +80°C
Storage temperature range:	-40°C to +80°C
Weight (in air):	75g
Cable length:	Standard length 6m Optional cable lengths available on request
Encapsulating material:	Special formulated NBR



PRODUCT BENEFITS

- High sensitivity
- Omnidirectional to high frequencies
- Broad banded
- O-ring sealed mounting
- Individually calibrated



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-1 0



Frequency [kHz]

 Frequency [kHz]

80 100

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Electrical Diagram

Pizoelectric Sensor element

Plug + Adaptor





PLD16997-1A

For more details visit www.teledyne-reson.com or contact your local Teledyne RESON Office. Teledyne RESON reserves the right to change specifications without notice. 2016@Teledyne RESON

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