Piezometer V2

Deep sea sediment pore pressure monitoring

Piezometer V2 is designed for in situ measurement and monitoring of pore pressure for geotechnical and hydro-sedimentological applications down to 6000m.

The pressure of the fluids between the solid grains of the sediment is one of the crucial controls for the stability of sediments.

The piezometer instrumented stake is inserted into the sediment and provides the possibility to measure the pore pressure in different depth levels.

The evolution of this dynamic parameter can be monitored in a short period of hours or some days as well as for several months.

Piezometer V2 was developed by Ifremer, it is manufactured and sold by nke instrumentation.



www.nke-instrumentation.com



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• tilt sensor along 2 axes

Piezometer V2 enables short and long term measurements:

- To determine the hydraulic parameters of the sediments based on the dissipation of the interstitial pressure generated by the sinking of the piezometer
- identify quantify the hydraulic gradients To and in the sedimentary layers
- To detect the processes responsible for interstitial overpressures (thermal gradient, dissociation of gas hydrates, seismic shock, fluid migration...)
- To quantify the effect of these unpredictable processes on the generation and dissipation of interstitial overpressures.



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