

THE DESIGN AND SPECIFICATIONS OF A VERSITILE “MINI LOGGER”

A compact ice borehole logger has been developed at the Niels Bohr Institute to reliably measure temperature, pressure, and orientation with minimal logistical demands. Designed for use with a simple line and winch, the lightweight device enables high-fidelity data collection at remote coring sites without requiring complex infrastructure. The first iteration, the minilogger, integrates the ISD4000 deep-sea navigation sensor with an OpenLog Artemis data logger. Fully self-powered and requiring no specialized software, it is configured and offloaded via a standard USB interface. The logger is mechanically centralized in the borehole and can be fastened to the end of any physical cable for deployment, with no electrical communication through the line. The pressure vessels containing the sensor and the logging electronics are designed for 3000 meters, allowing for use at a full range of drill sites. These features make it a versatile and practical addition to our existing suite of logging tools.

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