



COOLING CIRCUIT WATER FLOW MONITORING IN ROCK CORE ANALYSIS

MEASUREMENT TASK

Geotek's view is that if a rock core is worth collecting, it's worth logging, and they have been providing logging, analysis and measurement services and equipment to a wide range of industries for more than twenty years. To study certain types of cores, those must be kept pressurised and at a low temperature to maintain stability before it is analysed. To confirm that the system is working properly, it is important to monitor the flow of water inside the cooling circuit.

SOLUTION

The KATflow 100 was Geotek's choice to monitor the cooling circuit flow, which due to the temperature-resistant, high performance electronic compounds integrated in the device may be operating anywhere from the Arctic to the South China Sea. The easy set-up, straightforward installation and flexibility of the KATflow 100 makes it perfect to support the performance of the sophisticated Geotek equipment and, because the transducers could be installed whilst maintaining the integrity of the process, it was the ideal solution for the high pressures in the cooling circuit.

ADVANTAGES

- Easy installation in confined spaces
- Applicable on pipes of various materials, diameters and liquids
- Simple, quick and cost-effective installation on existing pipelines
- No process interruption and no pressure drop
- Shows repeatable and accurate results even in non-ideal conditions
- Reliable measurement even under high pressure

SPECIFICATIONS

Installation type	Fixed
Medium	Water
Pipe material	Stainless steel
Pipe diameter	16 mm
Temperature	Low
Flow range	16 l/min

APPLICATION



Geotek needed to monitor the water flow in a high pressure cooling circuit.

INSTRUMENT SOLUTION



The KATflow 100 gave Geotek the reliable, non-invasive measurement that they needed to confirm flow in the circuit.