

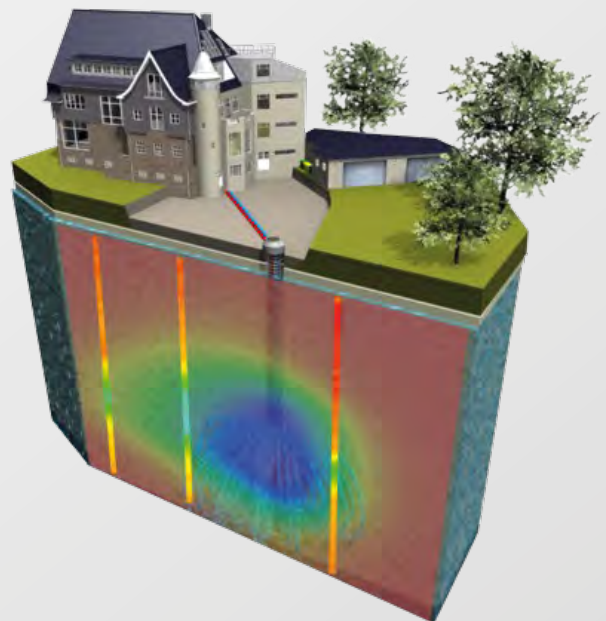


**GWE GeoTrace® –
The geothermal
measuring chain**

**The solution for sustainable heat
production with geothermal energy**

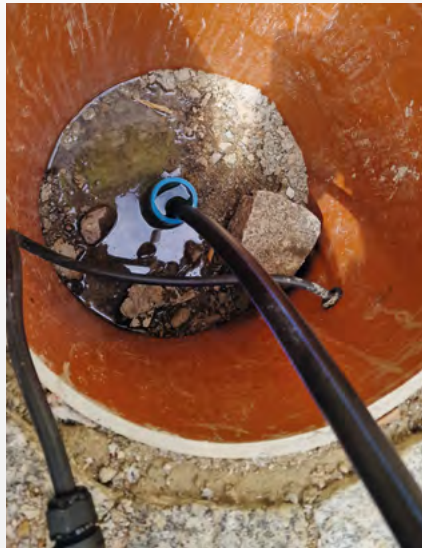
An overview of the benefits

- ✓ **Precise monitoring of thermal changes in the ground**
- ✓ **The length of the measuring chain can be flexibly adjusted and equipped with any number of sensors at varying intervals**
- ✓ **Pressure-tight and permanent installation underground make the measuring chain ideal for long-term monitoring of the heat source**
- ✓ **With the recorded data, which can be automatically transmitted and saved using a SIM-IoT connection, limit values can be monitored and risks detected at an early stage**
- ✓ **A user-friendly dashboard enables access to the data at any time and a digital well log**
- ✓ **Autonomous measuring point with independent energy supply – without additional wiring**



Functional principle

The geothermal measuring chain provides you with comprehensive monitoring and control of your geothermal applications. These measurement data can be transmitted in real time directly to your system automation, or to a server using mobile communication, which ensures continuous data recording. User-friendly operation and easy configuration give you convenient access to the data in an online browser. In addition, automatic data transmission by email to the responsible reporting office will improve the reaction time in case of deviations. Reliable data storage over a period of 10 years secures access to historical data.



Technical data

- Record temperatures simultaneously in multiple earth layers
- Long-term monitoring
- Temperature sensors and read-out module in a single system
- Autonomous measuring point without separate wiring
- Data transfer via SIM IoT connection
- Well log in the form of a digital dashboard
- Automatic data transfer from measuring point to server landscape
- Individual design of chain length, number of sensors and distance between them
- Permanent, pressure-tight installation
- Sensor accuracy +/-0.5 K
- Read-out accuracy 0.1 K

We would be happy to develop your custom solution together with you.

GWE GmbH

Moorbeerenweg 1
31228 Peine, Germany

Phone: + 49 (0) 5171 294-0
info@gwe-group.com



www.gwe-group.com