

# Thermal Response Test Equipment Data

Country: *Germany*

Contact Person: *Dipl.-Ing. M. Wieschemeyer*

Organisation/Company: *M&P Geonova GmbH*

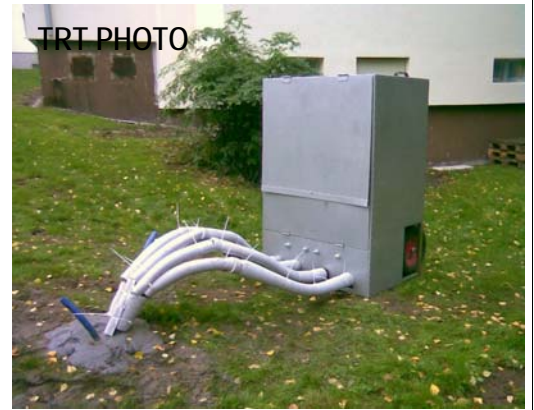
Address:

Westerbreite 7  
49084 Osnabrück  
Deutschland

Phone: +49 (0) 5419778800

Email: *geothermie@mup-geonova.de*

TRT PHOTO



## General TRT data

Type: <i>Heat injection</i>	No TRTs: <i>1</i>	Size, weight: <i>0,6 x 1,2 x 0,9; 130 kg</i>
Aim: <i>Research, commercial</i>		Pump: <i>Grundfos</i>
Powered by: <i>Electricity, treephase (400V, 16/32 A)</i>		Heater: <i>capacity (3-12 kW)</i>
Built on/in: <i>Trailer, movable</i>		HP/Cooler: <i>no</i>
<p>Principle outline</p>		Temperature measurements: <i>- ambient, In/Out, Microdriver profile measurement</i>
		Flow rate measurements: <i>- inductive flowmeter</i>
		Voltage stabilization: <i>No</i>
		Electricity measurement: <i>Yes</i>
		GPS: <i>No</i>
		Remote Control: <i>No</i>
		Remote Data Collection: <i>Yes</i>
		Logger: <i>12 channel logger</i>

## TRT Experience

Years of operation: *4*

Number of performed measurements: *> 40 (15-20 tests per year)*

Typical borehole depths: *20m to 200m*

Applications: *BHE*

Typical collector type: *1U, 2U, coaxial pipe*

Typical fluid type: *water, brine*

Typical groundwater temperature: *10-13°C*

Geographical area: *Germany*

Analysis Method: *Numerical / Line source / Automatic / Direct / etc.*