



Offer

Offer date 2025-01-13
Offer no 2299

Delivery address

Academy of Sciences of the Czech Republic
- Institute of Rock Structure and Mechanics
V Holešovičkách 94/41
18209 PRAHA 8
Czech Republic

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Cust No 9900000003497
Your Reference Jan Blahut
Terms of Delivery Delivered At Place (DAP)
Delivery Type Collected
Your VAT no CZ67985891

Our Reference Lars Peter Åsberg
Payment Condition Net 30 days
Valid until 2025-03-31
Penalty Interest 12%

Item no	Designation	Amount	Unit	ppu	Total
101002	TLS-100 Thermal Conductivity Meter	1	pc	5 245,00	5 245,00
108136	TPS-4 Surface Sensor	1	pc	2 652,00	2 652,00
108103	TLS 50 mm Rock Needle Kit	1	pc	1 027,00	1 027,00
999002	DAP Shipping	1	pc	75,00	75,00
Possible accessories					
108139	TLS 100 mm Spare Needle, ASTM D5334-22a	1	pc	743,00	743,00

* Certificate of Quality is sent with each instrument and needle.

*Expected delivery time: 1-3 weeks from Purchase order

* HS code: 9027 89 90 00

*Warranty 12 months.

*Limited warranty for sensors after use.

*Prices for Q1 2025

Excl. VAT	Total	Offer value
9 742,00	9 742,00	EUR 9 742,00

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Detailed item descriptions

101002 – TLS-100 Thermal conductivity meter. Includes: TLS-100 controller, 100 mm needle probe, 100 mm verification sample (polymer), 1 jar of thermal paste (56 grams), TLS Drill Bit 100 mm (#45 6" Aircraft), TLS Drill Bit 100 mm (#45 PTD Taper Length), batteries, USB cable, robust case, manual, and Windows PC software.

Test standard: ASTM D5334-22a

Optional accessories:

- * 100 mm spare needle.
- * 50 mm rock needle kit for testing hard sample like stone, concrete, and asphalt.
- * 150 mm soil needle for compliance with IEEE 442-2017.
- * TPS-4 thermal conductivity sensor. This is a surface sensor for solids, powders and pastes. No need for drilling or contact agents. Can be combined with a powder/paste adapter for easier testing of such samples.

Revision date: 2024-07-04

Detailed item descriptions

MP-2

Measurement Platform Two - Thermal Conductivity Advanced portable meter with unique selection of thermal conductivity sensors for a variety of applications, with focus on primary measurements.

Each sensor type is auto-recognized when connected, allowing plug-and-play testing. Available sensors are TPS-4, TLS-50 mm, TLS-100 mm, TLS-150 mm, THW-L3, and TPS-EFF.

MP-2 Specifications

Materials: Liquids, Solids, Pastes, Powders, and Textiles

Measurement Capabilities: Bulk properties

Thermal Conductivity range is dependent on the sensor type used.

Device must be combined with a sensor to test samples.

Field-testing kit can be added at an additional fee.

MP-2 Controller

Specifications:

Onboard Smart Thermal Conductivity Software

Desktop Utility for download - export to Excel

Auto-test Scheduling

Temperature Recording

Raw-data Recording

Powered by Battery or USB

Includes:

MP-2 Controller with stand

MP-2 Windows Utility

USB Cable and International Power Brick

4 x AA Batteries

Digital Manual on USB

1 Year Warranty

Optional Thermal Conductivity Sensors

TPS-4

Property: Thermal Conductivity, 0.029 to 20 W/m/K (5%)

Standards: Modified ISO 22007-2

Materials: Solids, Powders, and pastes (Polymers and Composites)

Note: The hardware is simplified as compared to the full ISO 22007-2 requirements.

TLS 50 mm

Property: Thermal Conductivity (5%)

Standards: Modified ASTM D5334-14

Materials: Concrete, Rocks, Polymers

Note: The length to diameter ratio of this needle is such that the standard is not strictly followed. As a result, it is marked as modified.

TLS 100 mm

Property: Thermal Conductivity (5%)

Standards: ASTM D5334-22a, IEEE 442-1981

Materials: Soil, Polymers

TLS 150 mm

Property: Thermal Conductivity (5 %)

Standards: ASTM D5334-14, IEEE 442-2017

Materials: Soil, Polymers

TLS vCp 100 mm

Property: Heat capacity (10 %)

Standards: n/a

Materials: Soil

THW-L3 Sensor (40 mm)

Property: Thermal Conductivity (5 %)

Standards: ASTM D7896-19

Materials: Liquids, Paste

TPS-EFF Sensor (30 mm)

Property: Thermal Effusivity (5 %)

Standards: ASTM D7984-21

Materials: Textiles and fabrics