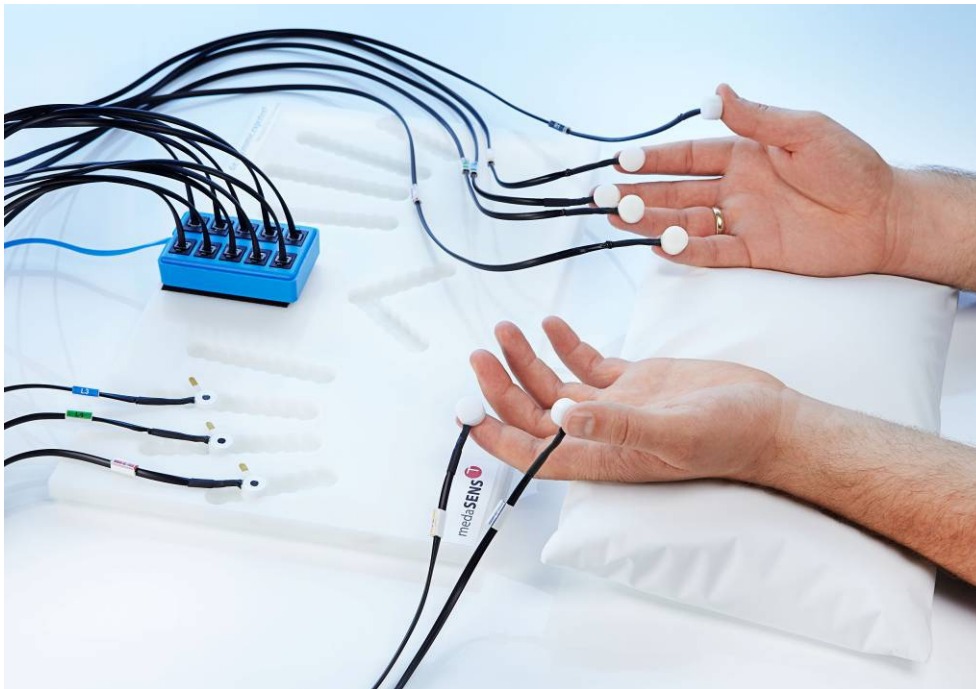


## Cold Provocation Test System - medaSENS<sup>T</sup>



Working with vibrating tools for many years can lead to circulatory disorders in the fingers. During assessments, the cold provocation test (CPT) is applied in diagnosing such circulatory disorders in the fingers.

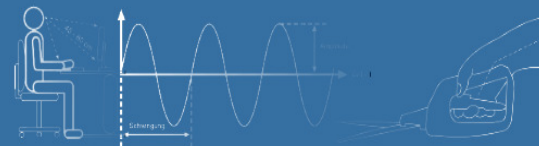
With the passage of the EU vibration directive 2002/44/EG and the Employers' Liability Insurance Association's principle G 46 "Stress on the Muscular and Skeletal System", this diagnostic procedure is now also to be applied in preliminary examinations and follow-up examinations of people who are exposed to vibrations.

As infrared thermography systems are very expensive and complete CPT systems with temperature sensors are not available on the market, the **ergonomie.experten** developed the cold provocation test system medaSENS-T.

**With this measurement system, a simple and standardised<sup>1</sup> performance of the cold provocation test is now possible.**

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<sup>1</sup> DIN ISO 14835-1 (2005): Mechanical Vibration and Shock - Cold Provocation Tests for the Assessment of the Peripheral Vascular Function - Part 1: Measurement and Evaluation of Finger Skin Temperature.



## Scope of Delivery:

- temperature measurement system<sup>2</sup> with USB interface
- ten fingertip temperature sensors with adhesive rings for the electrodes (0.06 °C resolution, accuracy (typ. values) 0.5 °C (at 20 °C)) for recording the fingertip temperature of all 10 fingers simultaneously
- automatic measurement sequence
- user-friendly measurement software (in English)
- 100 adhesive rings 13 mm x 5 mm
- comfortable and hygienic hand support
- notebook
- (optional) cooler to generate a cold water bath (10 – 12°C)

meda**SENS**

## User Interface

- entry of the patients' data (name, age, sex)
- possibility to enter a comment
- the duration of the cold provocation can be selected
- choice between graph and table representation
- printing, saving and exporting the data
- older examinations can be loaded at any time
- optional: software-supported anamnesis (Vibration White Finger VWF)

**Options** 09:11:45

**Patient data**

Name: Test  
Surname: Test  
Gender:  male  female  
Date of birth: 08 02 1987 (dd.mm.yyyy)  
Comment: x  
Build file name

Water temperature (11.5-12.5 °C) 12 °C  
Room temperature (20 bis 22 °C) 21 °C  
Cold provocation time (5 min) 5 min

Save file name and directory  
D:\Eigene Dateien\Ib\Projekte\ee\Produkte

Start  
Pause

**Left**

Start temperature [°C]

L5 - 18,1  
L4 - 19,7  
L3 - 19,4  
L2 - 18,2  
L1 - 19,6

**Right**

Start temperature [°C]

R1 - 18,1  
R2 - 19,6  
R3 - 18,2  
R4 - 21,6  
R5 - 18,4

Temperature (°C)

Time after CP [min]

Further information at: [www.medasens.de](http://www.medasens.de) and [www.kaelteprovokationstest.de](http://www.kaelteprovokationstest.de)

Ver. 11.2010

<sup>2</sup> with the CE mark of conformity, measurement device complies with the Medical Devices Act (EN 60601 / VDE 0750)