

THV

Calibration and certification of gauging equipment



1.

PRESENTATION

The horizontal THV instrument has been designed for calibration and certification of gauging equipment of small dimension.

It allows easy and precise checking of plug gauges, ring gauges, thread plug gauges, test and dial indicators as well as measuring of high precision production parts.

The incorporated opto-electronic measuring system guarantees high accuracy. A separate display unit or a PC with Trimos WinDHI software can be used to display the measurement results.

The THV instruments can also be delivered without measuring system. An electronic probe or a dial indicator shall then be used as measuring system.

Due to its small size, The THV can be moved easily. It is therefore frequently used as mobile calibration station.

- Ideal for use in a clean space in the workshop
- ISO 9000 Certified
- Easy to use
- Large accessories range
- According to the application, can be set up to 90° horizontally or inclined



2.

DISPLAY/SOFTWARE

Display TA-DU-323

Measuring direction inversion (+/-)

Touch screen 4.3"

Analog or digital display

Min/MAX/DELTA/TOL and calcul function

2 canaly

Can be connected to a computer



WinDHI software

Measuring direction inversion (+/-)

DDE-Server (pour excel, word, etc...)

Help for measuring functions

Data transfer using a foot pedal

Live display of measurements, length and saved min/max values

Measuring equipment management systems compatibility



3.

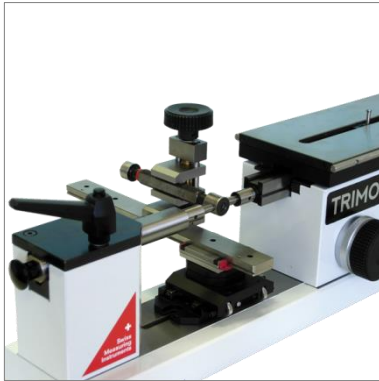
TECHNICAL SPECIFICATIONS

THV		
Absolute measuring range	mm	50
Application range, external measurements	mm	100
Application range, internal measurements	mm	100
Max permissible errors, $B_{MPE}^{1)}$	μm	$0.2 + L(mm)/250$
Repeatability, $R_{MPE} (2s)$	μm	0.1
Resolution	mm	0.00001
Measuring force (adjustable)	N	$0 \div 4$
Weight	kg	22
Storage temperature	$^{\circ}C$	$+10 \div +40$

¹⁾ Instruments with integrated measuring system. Values valid at temperature of 20 ± 0.2 $^{\circ}C$ and relative humidity of $50 \pm 5\%$.

4.

APPLICATIONS AND FUNCTIONALITIES



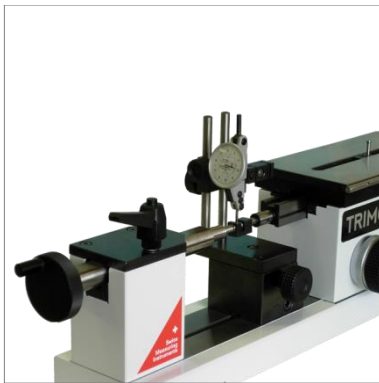
Calibration of plain and threaded plug gauges using the floating table (THV-115)



Calibration of plain rings gauges (THV-260)



Measuring of precision parts (THV-100 / THV-101)



Checking of test indicators (THV-100 / THV-150 / THV-180)



Adjustable support for a constant measuring force (THV-200)



Floating table for more accurate internal measurements

5.

CODE NUMBERS

THV	Rigid table		Floating table	
Instruments with measuring system	THVR.0-50	700 206 00 22	THVR.0-50S	700 206 00 24
Instruments without measuring system	THV.0-50	700 206 00 21	THV.0-50S	700 206 00 01