Short-manual DIAVITE COMPACT

Please refer to the attached CD-Rom for the complete manual in PDF format

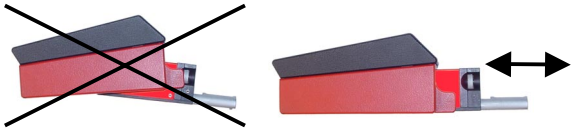
Structure of instrument

When using as one-hand operated instrument, the traverse unit (picture below) with inserted roughness tracer is connected directly with the instrument housing. It is suitable to effect roughness measurements on even or round surfaces.

One-hand operated instrument with tracer.

The DIAVITE Compact VHF is supplied with an adapter, connected directly with the instrument, and an extension cable for measuring directly with the handier traverse unit. This enables free measurements, to reach badly accessible measuring spots, and to effect measurements by means of a measuring support as well - unavoidable for measuring with skidless tracers.

Adapter for DIAVITE-COMPACT



The traverse unit and the adapter, held by two fixing balls in the instrument, must by no means be inserted obliquely, as this could cause damage of the plug-contacts.

Setting of language

1. Press any key – the instrument will be ready for operation within a few seconds.
2. Press button ‚**M**' in the display appears: **Menu: Tracer**
3. Press the button ‚**R**' three times, in the display appears: **Menu: Language.**
4. Press button ‚**Start**' once, in the display appears: **Language: German**
5. Press the button ‚**Lt**' once, in the display appears: **Language: Français**
6. Press the button ‚**Lt**' several times, the further languages will appear one after the other.
7. After having reached the requested language, press the button ‚**Start**' once, and you are in the menu again.
8. Press the button ‚**M**', you are in the measuring mode again.

Calibration

1. Press any button, after some seconds, the instrument is ready for operation.
2. Press button ‚**M**', you are in the mode ‚**Menu: Tracer**'
3. Press button ‚**Lt**' until the indication ‚**Menu: Config**' appears
4. Press button ‚**Start**' once, in the display appears: ‚**Config: Calibration**'
5. Press button ‚Start', in the display appears: ‚**3.00**'

For the calibration, the cutoff 0.8 mm is set automatically!

6. Press button ‚Lt' or ‚R', if you do not calibrate with the original metal calibration piece.
7. Press button ‚Start' once, for starting the calibration procedure.
8. The calibration procedure (4 measurements) lasts one minute approximately.
9. After termination of the calibration procedure, the actual measuring value Ra is indicated for a short while. In course, the instrument will be in the main menu again.
10. Press button ‚M', you are in the measuring mode again.

Connections

Under the cover there are connections for

mains adapter USB

Tracer

Remove the supporting shoe (6) by using the enclosed hexagon key or by means of the knurled nut (type VHF).
The tracer is now inserted into the traverse unit that the point in the middle is facing the prism.
Warning: By no means is the tracer to be inserted forcefully; it must be held with the utmost care at its largest diameter! If manual measurements are to be effected, remount the supporting shoe to the traverse unit once again.

The position of the supporting shoe is correctly reached when the work piece is supported on its whole length by the traversing unit with supporting shoe. If the measuring area is too small, the bottom surfaces of traversing unit and supporting shoe must be on the same level.

Keyboard

Key	Measuring mode	Menu function
↵	Start measuring	Confirmation
M	Menu for configuration of instrument	Menu switch on/ off / Escape
Lt	Selection of traversing length	Selection of menu – previous menu point
R	Recall of the measuring values	Selection of menu - next menu point

Measuring

The area to be measured on the work piece must be properly cleaned in order to avoid that the tracer getting dirty. If the roughness is measured manually, the tracer is laid onto the work piece and held steadily. The green indicator LED on the instrument must be on, confirming that the tracer and the instrument are in condition ready to measure. After pressing the start key, the measuring procedure is effected automatically. Shortly after, the measuring values can be read on the LCD-display and printed out.

Pressing any key can interrupt a current measuring operation and bring the tracer to a halt**. The measuring operation must be started again, to bring the tracer to its starting position again.**