

# Instruction Manual

## QuaNix® 1500

### Coating Thickness Gauge

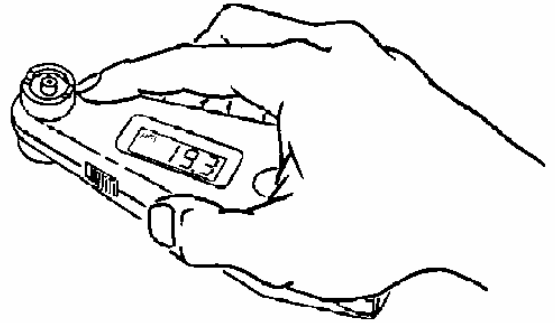
The **QuaNix® 1500** is a combination gauge measuring non-magnetic coatings on steel or iron (Fe) and insulating coatings on nonmagnetic, metallic substrates (NFe).

#### Measuring range:

0-5000µm or 0-200 mil (convertible)

#### Measurement:

Place the **QuaNix® 1500** with its ring around the probe evenly onto the object to be measured (see drawing). To measure on curved surfaces remove the red protection rings by turning and pulling and use the V-groove.



#### Zero Adjustment:

In case an uncoated substrate is not available use one of the two zero plates. For measurements on ferrous substrates use the steel zero plate (Fe-label pointing upwards), for Aluminium applications (NFe-label pointing upwards) the Aluminium plate. To zero the **QuaNix® 1500** place it on the substrate or zero plate and push one of the slides at the sides of the gauge for one second. A control number will appear on the display. Lift the gauge at least 25mm (one inch) from the zero plate. Another number will be displayed, thus indicating that the zero adjustment has been completed.

#### Converting µm/mil:

While a reading is shown on the display, lift off the gauge and push both slides on the sides of the gauge simultaneously. Memory gauges are converted with the software only.

#### Battery:

If the blinking sign „BAT“ appears on the display, a new battery should be used.

#### Possible errors:

Err = Incorrect use

InFi = Infinity: measurement above 5 mm or e.g. on wood

### Additional Functions for Gauges with Memory

Gauges with memory and RS232-interface offer the following features:

- a) Memory for up to 3900 values
- b) Block segmentation up to 999
  - Block # 1 Indication b001
  - Block # 2 Indication b002 a.s.o. to
  - Block # 999 Indication b999
- c) Display of statistical values of the actual block:
- d) Average
- e) Maximum
- f) Minimum
- g) Standard Deviation
- h) Deleting the last reading and the entire memory
- i) Processing the readings via interface and software

### **Memory Mode:**

Switch on the gauge. Push both slides simultaneously and hold them for approx. 1 sec. Each reading is accompanied by a double beep. After approx. 1 sec the display shows alternating the last reading and its number with a leading "N". To leave the memory mode push both slides simultaneously and shortly. Do not hold them.

If no readings are taken within 30 sec, the gauge switches off. It starts again in the normal mode.

### **New Block:**

Switch the gauge on and set it to the memory mode. Push both slides until the display changes to a new block number, e.g. "b002". All new readings are stored in the new block.

### **Average, Maximum, Minimum, Standard Deviation**

Switch the gauge to the memory mode. Push one of the slides for approx. 1 sec. The display shows "Ae" and the average (e.g. 139  $\mu\text{m}$ ) of the actual block, then "N" and the number of values in this block (e.g. N 22). Push the slide again to see the maximum(), minimum() and then the standard deviation (d)of the readings in this block.

### **Deleting Readings and the entire Memory**

Switch the gauge to the memory mode. Then push one of the slides for min. 3 sec. The last reading is deleted. If the slide is held on, the display shows "dEL" and ALL" 3 times and a beep sounds. If the slide is not released the entire memory is deleted.

### **Processing the Readings via RS232 Interface**

All readings can be downloaded to a PC or the printer PT 7 via the RS232 interface. The special interface cable (option) has to be connected to the plug on the side of the gauge and the PC or the printer.

For data processing with the PC a special software is available.

### **Additional Display Information**

End Memory or block capacity out of space

No No readings stored in the actual block or calculation of statistical values not possible