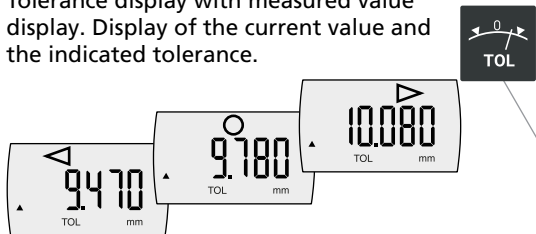# MarCator | Digital and dial indicators
Digital dial indicators with Reference System and Integrated Wireless

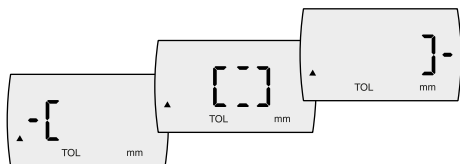With MarCator 1086 Ri and 1087 Ri, Mahr sets standards in the dial gage product segment:
With the Reference System, MarCator indicators are immediately ready for measurement, as the zero position once set remains stored for all further measurements. And if you need to document your data, Integrated Wireless, the integrated energy-efficient radio system, offers you the optimal solution for transferring the measured values to the PC.

Clear display

Tolerance display with measured value display. Display of the current value and the indicated tolerance.

Tolerance display without measured value display. Tolerance overrange or underrange is indicated exclusively by symbols.

Universal SPC interface

- **Integrated Wireless**
  Radio interface at the price of a cable

- **USB**
  No interface box necessary! Simple and cost-effective installation of multipoint measuring systems via USB hubs

- **Digimatic**
  For connection to a digimatic compatible evaluation unit

- **Mahr Opto RS232C**
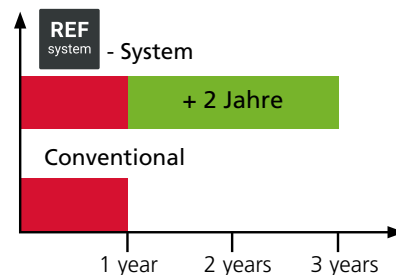 For direct connection to a COM port on the PC

High operating reliability

Lock function prevents unintentional key operation. All keys or individual functions can be locked.
If a locked key is pressed, "LOC" appears in the numeric display.

Absolute-function:

ABS Dial gage can be set to 0.000 in any position without losing reference to the preset value

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IP protection class IP54 (optional)
- Protective cap at the end of the measuring pin
- Rubber bellows on measuring pin
- Sealed battery compartment

Code Letters	IP	International Protection
First numeral	5	Dust protection (from harmful dust deposits)
Second numeral	4	Protection against water splash in all directions

3-year battery life

The Reference System is particularly energy-efficient. Since almost no energy is required when the system is idle, **battery life is increased to 3 years***.

REF system - System
+ 2 Jahre
Conventional

1 year   2 years   3 years

*When wireless transmission is deactivated

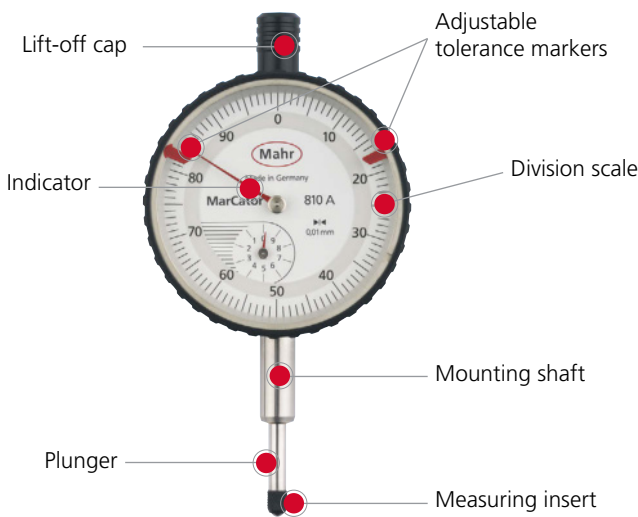# One-time zeroing

REF system

The digital indicators 1075 R, 1086 R(i) and 1087 R(i) are equipped with the innovative Reference System. Once the zero position has been set, it remains stored for all further measurements. This means that the instrument is immediately ready for measurement after pressing the ON button or simply by moving the measuring bolt. The need to reset the instrument to zero again after switching it on is no longer necessary like it is with conventional dial gages.

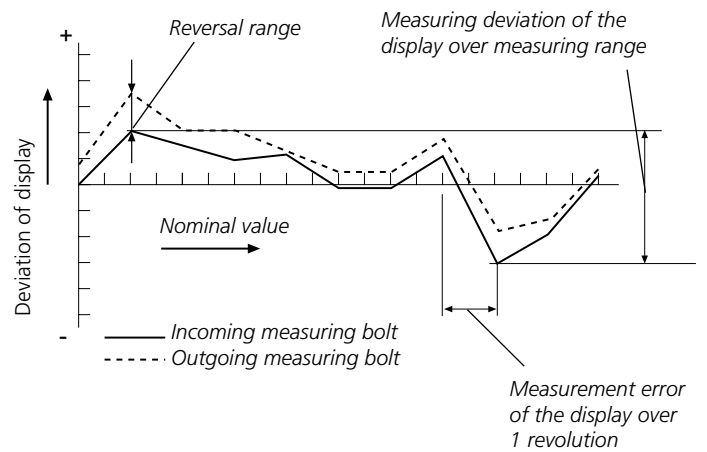# MarConnect Integrated Wireless – wireless transmission at the price of a cable

With Integrated Wireless, you get wireless data transmission for the price of a cable. Data acquisition with indicators is now even easier: Transfer your measurement data simply and without annoying cables directly into Microsoft® Office Excel® or via keyboard code into any Windows® program.
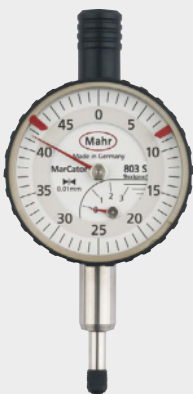
MarCator | Terms

- Lift-off cap
- Adjustable tolerance markers
- Indicator
- Division scale
- Mounting shaft
- Plunger
- Measuring insert

Metrological characteristics

- Reversal range
- Measuring deviation of the display over measuring range
- Deviation of display
- Nominal value
- Incoming measuring bolt
- Outgoing measuring bolt
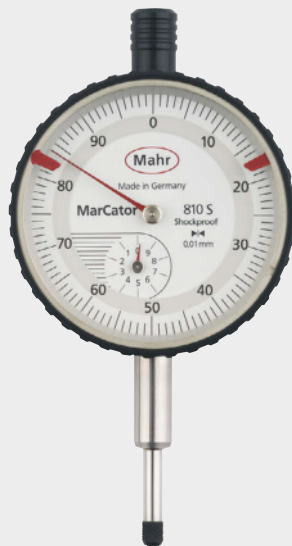- Measurement error of the display over 1 revolution

MarCator | Models

| Small dial indicator 803 S | Dial indicator 810 S | Digital indicator 1075 R | Digital indicator 1087 Ri |