

## Mobile measuring made easy

The MarSurf PS 10 is the ideal entry level instrument for surface metrology: Its extraordinarily simple and intuitive operation along with numerous safety functions including the automatic cutoff make the device as easy to control as a cellphone. Due to its minimal size, it is also perfect for location-independent measurements – vertical, horizontal and even overhead if necessary. And thanks to the removable drive unit, the MarSurf PS 10 can be used flexibly in production.

The measuring instrument boasts three order options for increased flexibility: with stylus tip 2 µm, 5 µm and also a variant with a transverse drive unit (MarSurf PS 10 C2).

- Intuitive operation: As easy as using a smartphone and with a display that can rotate
- Creates complete PDF measuring records right in the measuring instrument and data backup as TXT, X3P, CSV and PDF file.
- Customized comments for the PDF measuring record entered directly into the MarSurf PS 10
- Error-free operation thanks to an integrated, removable roughness standard
- Automatic cutoff selection, ensuring that even non-specialists get the correct measuring results

9

other, optional  
probes

### Always at hand

The calibration standard stays in the instrument and can be checked at any time.

500g  
lightweight

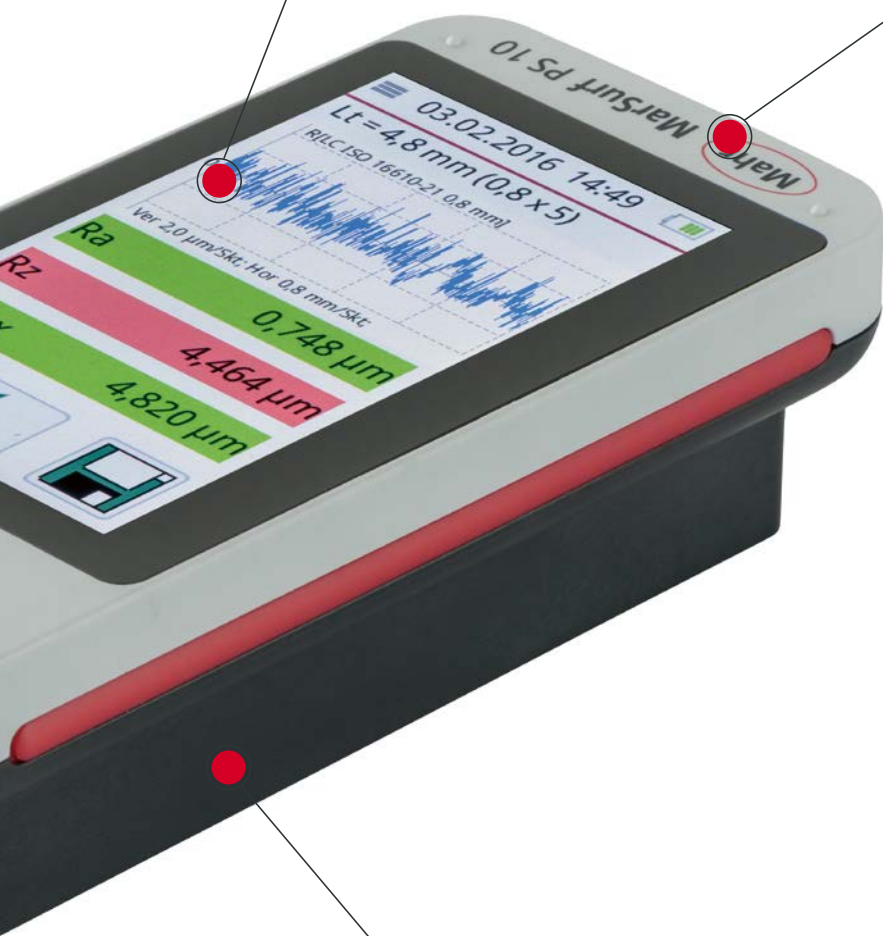


**Extremely easy to operate with detailed profile display**

The large 4.3" high-resolution and backlit TFT touch display allows intuitive operation and precise representation of the measuring profile.

**Perfect evaluation and documentation**

Measuring records are automatically created in the instrument without the need for additional software.



**Flexible use**

The removable drive unit, in conjunction with the optional handheld support, lends this instrument added versatility where space is limited, e.g. in holes or when measuring small parts.

up to  
**500,000**  
measurements  
can be stored in the instrument

**41**  
parameters  
Same range of functions  
as a laboratory instrument

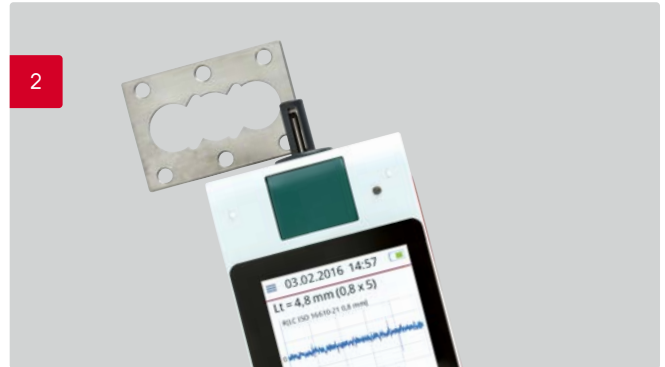
**4,3"**  
TFT touch display  
similar to a smartphone

at least  
**1,200**  
measurements  
without power supply

## Important **additional functions**



1. Roughness measurement on shafts



2. Roughness measurement on flat surfaces



3. Roughness measurement with measuring stand ST-D



4. Removable drive unit for measurement in small bores

### Scope of delivery

- MarSurf PS 10 basic unit
- Drive unit (detachable)
- 1 standard probe conforming to standards
- Built-in rechargeable battery
- Roughness standard integrated into housing (detachable), including Mahr calibration certificate
- Probe protection/vee block holder
- Charger/3 mains adapter
- Operating instructions
- Carry case with shoulder strap
- USB cable
- Extension cable for drive unit (length 1.2 m)
- Height adjustment (integrated)
- Handheld support (only with item no. 6910235)

## Device information

# MarSurf PS 10

Item no. 6910230 (2 µm stylus tip) | Item no. 6910232 (5 µm stylus tip) | Item no. 6910235 (C2 for transverse tracing)

Measuring principle	Stylus method
Probe	Inductive skidded probe
Parameters	Ra, Rq, Rz, Ry (JIS), Rz (JIS), Rmax, Rp, Rp (ASME), Rpm (ASME), Rv, R3z, Rk, Rpk, Rvk, Mr1, Mr2, A1, A2, Vo, Rt, RPc, Rmr, tp (JIS, ASME) equivalent to Rmr, RSm, Rsk, S, CR, CF, CL, R, AR, Rx, Rzx, Rvt, Rpt, Rvt, Rmrk1, Rmrk2, Rak1, Rak2, Rs
Unit of measurement	metric/inches
Measuring range	0.350 mm
Profile resolution	8 nm
Filter as per ISO/JIS	Gaussian filter as per ISO 16610-21 (formerly ISO 11562), special filter as per DIN EN ISO 13565-1, Ls filter as per DIN EN ISO 3274 (can be switched off), DIN EN ISO 21920
Cutoff lc as per ISO/JIS	0.25 mm, 0.8 mm, 2.5 mm, automatic filter detection
Traversing length Lt as per ISO/JIS	1.5 mm, 4.8 mm, 15 mm, N x Lc, variable, automatic
Traversing length as per ISO 12085 (MOTIF)	1 mm, 2 mm, 4 mm, 8 mm, 12 mm, 16 mm
Total length ln as per ISO/JIS	1.25 mm, 4.0 mm, 12.5 mm
Number n of sampling lengths as per ISO/JIS	selectable: 1 to 16
Stylus tip	2 µm (Item no. 6910230) 5 µm (Item no. 6910232)
Measuring force (N)	0.00075
Calibration function	dynamic; Ra, Rz, Rsm
Memory	max. 3,900 profiles, max. 500,000 results, max. 1,500 PDF measuring records, expandable to 32 GB with microSD card (320x memory capacity)
Languages	German, English, French, Italian, Spanish, Portuguese, Dutch, Swedish, Russian, Polish, Czech, Japanese, Chinese, Korean, Hungarian, Turkish, Romanian
Miscellaneous	Lock/password protected, date/time
Data interface	USB, MarConnect (bidirectional), microSD slot for SD/SDHC cards up to 32 GB
Protection rating	IP 40
Battery	Lithium-ion battery, 3.7 V, at least 1200 measurements
Long-range AC adapter	100 to 264 V
Dimensions	160 x 77 x 50 mm