



FEATURES

MarSurf PS 10 – simple, smart and mobile

- Compact roughness measuring instrument for mobile use
- Simple and intuitive to use: as easy as using a smart phone
- Large, illuminated 4.3" TFT touch display
- Adjustable display
- Data backup as TXT, X3P, CSV or PDF file
- Create complete PDF measuring records directly in the measuring instrument
- Customized comments for the PDF measuring record can be entered directly into the MarSurf PS 10
- Mains-independent operation: Over 1200 measurements without having to recharge the instrument
- An all-in-one solution. Small and lightweight (approx. 500 g)
- Instrument flexibility: removable drive unit
- 31 surface parameters: offer the same range of functions as a laboratory instrument
- Roughness standard stored within housing aids in reducing errors
- Quick access to your frequently used functions via the Favorites list in the display
- Automatic cutoff selection, so even non-specialists can be sure of getting the correct measuring results
- Additional version with transverse drive unit available as MarSurf PS 10 C2 (item number 6910235)

Package contents:

- MarSurf PS 10 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
- Power source with 3 adapters
- Operating instructions
- Carry case with shoulder strap
- USB cable
- Extension cable for drive unit (length 1.2 m)
- Height adjustment (integrated)
- **Software:** MarCom Professional free download: www.mahr.com/marcom (only for Mahr data cables and wireless systems with USB and RS-232 interface)



Applications:

- For shafts and housing components
- For large machines
- For large workpieces
- For milled and turned parts
- For ground and honed workpieces
- On the production line or directly on the machine; ideal for rapid testing of the surface roughness of a workpiece

TECHNICAL DATA

Order no.	6910230	6910232
Type	PS 10	
Parameters	Ra, Rq, Rz (Ry (JIS) is equivalent to Rz), Rz (JIS), Rmax, Rp, RpA (ASME), Rpm (ASME), Rpk, Rk, Rvk, Mr1, Mr2, A1, A2, Vo, Rt, RPl, Rmr (tp (JIS, ASME) is equivalent to Rmr), RSm, RSk, RS, CR, CF, CL, R, Ar, Rx, R3z	
Stylus	2 µm	5 µm
Calibration function	Dynamic; Ra, Rz, Rsm	
Storage capacity	Min. 3900 profiles, min. 500,000 results, min. 1500 PDF records, expandable to 32 GB with Micro SD card	
Languages	German, English, French, Italian, Spanish, Portugese, Dutch, Swedish, Russian, Polish, Czech, Japanese, Chinese, Korean, Hungarian, Turkish, Romanian	
Other	Lock/password protected, date/time	
Data interface	USB, MarConnect (RS-232), Micro SD slot for SD / SDHC cards up to 32 GB	
System of protection	IP 40	
Rechargeable batteries	Lithium-ion battery, min. 1200 measurements	
Wide range power supply	100 to 264 V	
H x W x D	mm	160 mm x 77 mm x 50 mm
Measuring principle	Stylus method	
Probe	Inductive skidded probe	
Measuring range	mm	0.350
Profile resolution	8 nm	
Filter according to ISO/JIS	Gaussian filter as per ISO 16610-21 (formerly ISO 11562), special filter as per DIN EN ISO 13565-1, Lambda s filter as per DIN EN ISO 3274 (can be switched off)	
Cutoff lc according to ISO/JIS	0.25 mm, 0.8 mm, 2.5 mm, automatic filter detection	
Number n of sampling length according to ISO/JIS	Selectable: 1 to 16	
Short stroke under ISO/JIS	Selectable	
Traversing length Lt according ISO/JIS	1.5 mm, 4.8 mm, 15 mm, N x Lc, variable, automatic	
Traversing length according ISO 12085 (MOTIF)	1 mm, 2 mm, 4 mm, 8 mm, 12 mm, 16 mm	
Evaluation length In according to ISO/JIS	1.25 mm, 4.0 mm, 12.5 mm	
Measuring force	N	0,00075
Positioning speed	0.5; 1.0	

ACCESSORIES

Order no.	Description	Type
6850540	PHT pick-up extension 80 mm	PHT (80 mm)
6111520	Standard probe 2 μm	PHT 6–350
6111526	Standard probe 5 μm	PHT 6–350/ 5 μm
6111527	Standard probe 10 μm	PHT 6–350/ 10 μm
6111521	Probe for bores with a diameter larger than 3 mm	PHT 3–350
6111524	Probe for grooves	PHT 11–100
6111525	Probe for concave and convex surfaces	PHTR–100
6111522	Probe for gear tooth flanks	PHTF 0.5–100
6111523	Probe for metal sheets	PT 150
6850715	Pick-up protection with header V-block, steel	PHT-ts4
7028530	Pick-up protection header V-block, plastic	PHT-ts3
6910209	Mount PS 10/M310 on measuring stand ST	ST-a3
6910435	RD 18 C / PS 10 upright holder for cylindrical drive unit, \varnothing 8 mm	ST-a2
6710803	Measuring stand 300 mm with cast iron base	ST-D
6710806	Measuring stand 300 mm with granite plate	ST-F
6710807	Measuring stand 300 mm with granite plate and T-slot	ST-G
2247086	Adjustable mounting bracket to connect to 814 SR	814 Sh
4426100	Height measuring and scribing instrument, 0 –350 mm	814 SR
4426101	Height measuring and scribing instrument, 0 –600 mm	814 SR
4102357	16 EXu data connection cable USB (2 m) (hardware Revision 1)	16 EXu
4102603	Data cable USB bi-directional (2 m) (hardware Revision 2)	DK-U1
6710401	V-block	PP
6710604	Parallel vice	PPS
6710529	XY Table	CT 120
4246819	Set of miniature precision vises, set contents: mini-vises, jaw widths 15 / 25 / 35 mm, with tripod and V-blocks and miniature dividing attachments	109 PS
6820420	Roughness standard with Mahr calibration certificate, profile depth 10 μm	PRN 10
4413000	Measuring tripod with triangular pedestal 300 mm	815 GN
4413001	Measuring tripod with triangular pedestal 500 mm	815 GN
4413005	Measuring tripod with triangular pedestal 750 mm	815 GN
4416000	Measuring tripod with magnetic base	815 MA
6299054	Evaluation software	SW XR 20
6910240	Protective films for LCD, real glass (3 pieces)	SF LCD
680000DKS	Geometric standard, sinusoidal profile	MGs 1
680000KAL	Geometric standard, sinusoidal profile	MGs 1
680001DKS	Geometric standard, sinusoidal profile	MGs 3
680001KAL	Geometric standard, sinusoidal profile	MGs 3
680002DKS	Geometric standard, sinusoidal profile	MGs 10
680002KAL	Geometric standard, sinusoidal profile	MGs 10

