

MarSurf



Mobile Surface Roughness Measuring Instruments

High-precision measurement of surfaces – flexible and intuitive
SMAHRT Surf - simple, smart and mobile.

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This is what we mean by **EXACTLY.**

MarSurf PS 10 Set

Entry Level Device in Surface Measurement Technology

Mahr's entry-level surface metrology instrument is intuitive and simple to use. The **4.3" TFT touch display** can be turned in any direction.

The **removable drive unit** makes the MarSurf PS 10 flexible in production and manufacturing. One new feature is the integrated but **removable calibration standard**.

Measuring records can be saved in the instrument itself as PDF files. Alternatively, they can be **transferred using MarCom**.



On-site roughness measurement.
Measuring in production with the MarSurf PS 10



Other practical examples using the MarSurf PS 10



MarSurf PS 10 "SMAHRT Surf"

Technical Data

MarSurf PS 10		
Unit of measurement		Metric / inch
Measuring principle		Stylus method
Pick-up		Inductive skidded pick-up, 2 µm (80 µin) stylus tip, measuring force ca. 0.7 mN
Parameters	DIN / ISO	Ra, Rq, Rz, Rmax, Rp, Rpk, Rk, Rvk, Mr1, Mr2, A1, A2, Vo, Rt, R3z, RPC, Rmr, RSm, Rsk, CR, CF, CL, R, AR, Rx, R3z
	JIS	Ra, Rq, Ry (equiv. to Rz), RzJIS, tp (equiv. to Rmr), RSm, S
	ASME	Rp, Rpm, RPC, Rsk, tp (enquir. to Rmr)
	MOTIF	R, AR, Rx, CR, CF, CL
Languages		English, German, French, Italian, Spanish, Portuguese, Dutch, Swedish, Czech, Polish, Russian, Japanese, Chinese, Korean, Turkish, Hungary, Romanian
Measuring range		350 µm
Profile resolution		8 nm
Filter*		Phase-correct profile filter (Gaussian filter) according to DIN EN ISO 16610-21 (before ISO 11562) Special filter according to DIN EN ISO 13565-1, Is filter according to DIN EN ISO 3274 (can be disabled)
Cutoff lc*	mm (inch)	0.25 / 0.8 / 2.5 (0.010" / 0.030" / 0.100"); automatic
Traversing length Lt*	mm (inch)	1.5/ 4.8 /15 (0.06" / 0.192" / 0.6"); automatic
Traversing length (according to MOTIF)	mm (inch)	1 / 2 / 4 / 8 / 12 / 16 (0.040" / 0.080" / 0.160" / 0.320" / 0.480" / 0.640")
Short cutoff*		Selectable
Evaluation length ln*	mm (inch)	1.25 / 4.0 / 12.5 (0.050", 0.15", 0.50")
Number n of sampling lengths*		Selectable: 1 to 16
Calibration function		Dynamic
Memory		3900 profiles, 500000 results, 1500 pdf-files, memory can be extended with microSD-Card up to 32 GB
Additional functions		Lock settings / password protection, Date/Time
Dimensions	mm (inch)	160 × 77 × 50 (6.29" × 3.03" × 1.97")
Weight		500 g (1.10 lbs)
Rechargeable battery		Li-ion battery, 3,7 V, rating 11,6 Wh
Interfaces		USB-Device, MarConnect (RS232, USB), micro SD Slot for SD™ / SDHC-Cards up to 32 GB
Long-range power supply		100 V to 264 V
Order no.	PS 10 Set	6910230
Order no.	PS 10 (5 µm probe tip)	6910232
Order no.	PS 10 C2 Set	6910235

* in accordance with ISO/JIS

