

## Mobile Roughness Measuring Instrument MarSurf PS 10



### Application:

For quick and easy roughness measurements of workpieces in the production and on the machine i.e.

- shafts, castings
- large workpieces
- milled and turned workpieces
- grinded and honed parts

### Technical Data

Order-no.		6910230	6910232
Product 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, R3z, RPs, Rmr (tp (JIS, ASME) is equivalent to Rmr), RSm, RSk, RS, CR, CF, CL, R, Ar, Rx	
Stylus		2 µm	5 µm
Calibration function		dynamic	
Storage capacity		min. 3900 profiles, min. 500000 results, min. 1500 PDF-protocol, memory can be extend with microSD-Card (up to 32 GB)	
Languages:		German, English, French, Italian, Spanish, Portugese, Dutch, Swedish, Russian, Polish, Czech, Japanese, Chinese, Korean, Hungarian, Turkish, Rumänisch	
Other		Lock/password protected, date/time	
Data interface:		USB, MarConnect (RS232), microSD Slot für SD / SDHC-Karten bis 32 GB	
System of protection		IP 40	
Rechargeable batteries		Li-ion battery, 3.7 V, rating 11.6 Wh, min. 1200 measurements	
Wide range power supply		100 to 264 V	
H x W x D		160 mm x 77 mm x 50 mm	
Weight	kg	0,49	
Measuring principle		Stylus method	
Inputs		inductive skidded probe	
Measuring range	mm	350 µm	
Profile resolution		8 nm	
Filter according to ISO/JIS		Phase-adjusted profile filter (Gaussian filter) as per DIN EN 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, automatische Filtererkennung	
Number n of sampling length according to ISO/JIS		selectable: 1 to 5	
Short stroke under ISO/JIS		selectable	
Traversing length Lt according ISO/JIS		1,5 mm, 4,8 mm, 15 mm, N x Lc, variable, automatical	
Traversing length according ISO 12085 (MOTIF)		1 mm, 2 mm, 4 mm, 8 mm, 12 mm, 16 mm	
Evaluation lenth ln according to ISO/JIS		1.25 mm, 4.0 mm, 12.5 mm	
Measuring force	N	approx. 0.7 mN	

### Features

#### „SMAHRT Surf“ - easy, smart and mobile

- Small and lightweight; ideal as mobile surface roughness measuring instruments
  - Simple to operate (smartphone!)
  - Large illuminated 4.3" TFT touch display
  - Display can be rotated
  - Start button is simultaneously the home button for direct access to the start screen
  - Data is saved in the device, e.g. TXT, X3P, CSV and PDF file
  - Main free operation: the built-in rechargeable battery can be used for up to 1200 measurements before being recharged
  - Increased flexibility due to the removable drive unit
  - 31 parameters: offer the same range of functions as a laboratory instrument
  - Integrated, removable roughness standard
  - Direct access to your customized functions with favorites
  - Short activation time - results are available after a couple of seconds
  - Automatic cutoff selection (patented) to ensure correct measuring results
- #### • Supplied with
- MarSurf PS10 base unit
  - Drive unit (removable)
  - 1 standard pick-up (conforming to standards)
  - built-in battery
  - Roughness standard integrated (removable) into base unit incl. Mahr calibration certificate
  - Pick-up protection
  - Charger / mains adapter with 3 mains power adapters
  - Operating instructions
  - Carrying case with shoulder strap
  - USB cable
  - Extension cable drive unit
  - Height adjustment accessory (integrated)

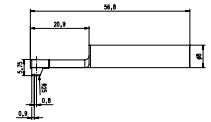
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### Accessories

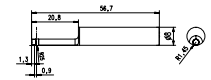
Order no.	Product description	Product type
6850540	Pick-up extension 80 mm	PHT (80 mm)
6111520	Standard probe	PHT 6-350
6111526	Standard probe 5 μm	PHT 6-350/ 5μm
6111527	Standard probe 10 μm	PHT 6-350/ 10μm
6111521	Probe for bores with a dia. larger than 3 mm	PHT 3-350
6111524	Probe for grooves	PHT 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 vee-block, steel	PHT-ts4
7028530	Pick-up protection header vee-block, plastic	PHT-ts3
6910201	Mount for MarSurf PS1/RD18 on measuring stand ST	
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	814 SR
4426101	Height Measuring and Scribing Instrument	814 SR
4102410	Data Connection Cable RS232C	16 EXr
4102357	Data Connection Cable USB	16 EXu
4102231	Transmitter	16 EWe
4102230	Receiver	e-Stick
6710401	Vee-block	PP
6710604	Parallel vice	PPS
6710529	XY Table	CT 120
4246819	Miniature precision vises, set	109 PS
6820420	Roughness standard with Mahr calibration certificate	PRN 10
6820601	Geometric Standard with sinusoidal groove profile	PGN 3
6820602	Geometric Standard with sinusoidal groove profile	PGN 1
6820605	Geometric Standard with sinusoidal groove profile	PGN 10
9027715	Mahr-calibration certificate for PGN Standard	PGN
6980102	DKD (German Calibration Service) calibrationcertificate for PGN Standard	PGN
6910435	Mount for RD18C on ST-Stands	
4413000	Indicator Stand with Delta Base	815 GN
4413001	Indicator Stand with Delta Base	815 GN
4413005	Indicator Stand with Delta Base	815 GN
4416000	Indicator Stand with Magnetic Base	815 MA



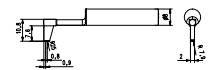
PHT (80 mm)



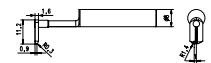
PHT 6-350  
PHT 6-350/ 5μm



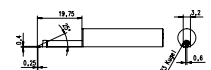
PHT 3-350



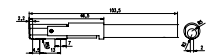
PHT 11-100



PHTR-100



PHTF 0.5-100



PT 50



ST-a1



ST-D



ST-F



ST-G



814 Sh



814 SR



16 EWe



e-Stick



109 PS