

# Product information

## Mobile roughness measuring instrument MarSurf PS 10

### Product features

#### "SMAHRT Surf" – 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 contains

Roughness standard, integrated in housing (removable), Stylus protection / Prism holder, power source, instruction manual, Carrying case with shoulder strap, USB cable, Extension cable to drive unit (length 1.2 m)

### Application

- For shafts and housing components
- For large machines
- For large workpieces
- For milled and turned parts
- For ground and honed workpieces



Item no.: **6910232**

### Technical data

<b>IP protection category</b>	IP 40
<b>Positioning speed</b>	0.5; 1.0
<b>Measuring principle</b>	Stylus method
<b>Probe</b>	Inductive skidded probe
<b>Parameters</b>	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
<b>Measuring units</b>	metric/inches
<b>Measuring range mm</b>	0.350
<b>Profile resolution</b>	8 nm
<b>Filter according to ISO/JIS</b>	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)
<b>Cutoff lc according to ISO/JIS</b>	0,25 mm, 0,8 mm, 2,5 mm, automatic filter detection
<b>Short stroke under ISO/JIS</b>	Selectable
<b>Traversing length Lt according ISO/JIS</b>	1.5 mm, 4.8 mm, 15 mm, N x Lc, variable, automatic
<b>Traversing length according ISO 12085 (MOTIF)</b>	1 mm, 2 mm, 4 mm, 8 mm, 12 mm, 16 mm
<b>Evaluation length ln according to ISO/JIS</b>	1.25 mm, 4.0 mm, 12.5 mm
<b>Number n of sampling length according to ISO/JIS</b>	Selectable: 1 to 16
<b>Stylus</b>	5 µm
<b>Measuring force (N)</b>	0,00075
<b>Calibration function</b>	Dynamic; Ra, Rz, Rsm
<b>Storage capacity</b>	Min. 3900 profiles, min. 500,000 results, min. 1500 PDF records, expandable to 32 GB with Micro SD card
<b>Languages</b>	German, English, French, Italian, Spanish, Portugese, Dutch, Swedish, Russian, Polish, Czech, Japanese, Chinese, Korean, Hungarian, Turkish, Romanian
<b>Other</b>	Lock/password protected, date/time
<b>Data interface</b>	USB, MarConnect (RS-232), Micro SD slot for SD / SDHC cards up to 32 GB
<b>System of protection</b>	IP 40
<b>Rechargeable batteries</b>	Lithium-ion battery, min. 1200 measurements
<b>Wide range power supply</b>	100 to 264 V
<b>Dimensions in mm</b>	160 mm x 77 mm x 50 mm
<b>Weight (gross)</b>	1.85 KG

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### Accessories

Order no.	Designation	Product 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/ 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
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	Digital height gage	814 SR
4426101	Digital height gage	814 SR
4102357	Data connection cable USB	16 EXu
4102603	Data cable USB bidirectional	DK-U1
6710401	V-block	PP
6710604	Parallel vice	PPS
6710529	XY table	CT 120
4246819	Set of miniature precision vises	109 PS
6820420	Roughness standard with Mahr calibration certificate, profile depth 10 µm	PRN 10