

# Product information

## Mobile roughness measuring instrument MarSurf PS 10 C2

### 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)

### Application

- For transverse scanning i.e. on crank or camshafts

### Introduction

sMAHRTsurf - Simple, smart and mobile



Item no.: **6910235**

### Technical data

<b>Positioning speed</b>	0.5; 1.0
<b>Measuring principle</b>	Stylus method
<b>Measuring units</b>	metric/inches
<b>Measuring force (N)</b>	0.00075
<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 <math>l_c</math> 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>Number n of sampling length according to ISO/JIS</b>	selectable: 1 to 16
<b>Data interface</b>	USB, MarConnect (RS-232), Micro SD slot for SD / SDHC cards up to 32 GB
<b>Languages</b>	German, English, French, Italian, Spanish, Portugese, Dutch, Swedish, Russian, Polish, Czech, Japanese, Chinese, Korean, Hungarian, Turkish, Romanian
<b>Storage capacity</b>	min. 3900 profiles, min. 500,000 results, min. 1500 PDF records, expandable with microSD card up to 32 GB
<b>Probe</b>	inductive skidded probe
<b>Calibration function</b>	dynamic; Ra, Rz, Rsm
<b>IP protection category</b>	IP 40
<b>Weight (gross)</b>	1.85 KG
<b>Dimensions in mm</b>	160 mm x 77 mm x 50 mm
<b>Other</b>	Lock/password protected, date/time
<b>Traversing length according ISO 12085 (MOTIF)</b>	1 mm, 2 mm, 4 mm
<b>Evaluation length <math>l_n</math> according to ISO/JIS</b>	1.25 mm, 4.0 mm
<b>Stylus</b>	2 $\mu$ m
<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, RPc, Rmr (tp (JIS, ASME) is equivalent to Rmr), RSm, RSk, RS, CR, CF, CL, R, Ar, Rx
<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>Measuring range mm</b>	0.350
<b>Profile resolution</b>	8 nm
<b>Traversing length <math>l_t</math> according ISO/JIS</b>	1.5 mm, 4.8 mm, N x $l_c$ , variable, automatic

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### Dimensions

Dimensions in mm	160 mm x 77 mm x 50 mm
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### Accessories

Order no.	Designation	Product type
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
6820420	Roughness standard with Mahr calibration certificate, profile depth 10 µm	PRN 10
6820602	Geometric standard with sinusoidal groove profile, profile depth 1,5 µm	PGN 1
6820605	Geometric standard with sinusoidal groove profile, profile depth 10 µm	PGN 10
4102357	Data connection cable USB	16 EXu
4102603	Data cable USB bidirectional	DK-U1
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
4413000	Measuring tripod with triangular pedestal	815 GN
4413001	Measuring tripod with triangular pedestal	815 GN