

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

Traversing length (Lt)	till 5.6 mm
Measuring principle	Stylus method
Unit of measurement	metrisch/inch
Measuring force (N)	0.00075
Probe tip radius	2 µm
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
Short stroke under ISO/JIS	selectable
Number n of sampling length according to ISO/JIS	selectable: 1 to 16
Measuring speed	0.5 mm/s to 1 mm/s
Positioning speed X-axis min.	0.5 mm/s
positioning speed X-axis max.	1 mm/s
Positioning speed X axis	0.5 - 1 mm/s
Surface parameters	Über 30 Kennwerte für R-Profil gemäß aktueller Normung ISO/JIS/ASME/Motif
Energy supply	Integrated rechargeable battery (min. 1200 measurements) or via charging unit
Data interface	USB, Duplex, Micro SD slot for SD / SDHC cards up to 32 GB
Languages	German, English, French, Italian, Spanish, Portugese, Dutch, Swedish, Russian, Polish, Czech, Japanese, Chinese, Korean, Hungarian, Turkish, Romanian
Storage capacity	min. 3900 profiles, min. 500,000 results, min. 1500 PDF records, expandable with microSD card up to 32 GB
Probe	inductive skidded probe
Calibration function	dynamic; Ra, Rz, Rsm
IP protection category	IP 40
Weight (gross)	1.85 KG
Dimensions in mm	160 mm x 77 mm x 50 mm
Other functions	Lock/password protected, date/time
Traversing length according ISO 12085 (MOTIF)	1 mm, 2 mm, 4 mm
Evaluation lenth ln according to ISO/JIS	1.25 mm, 4.0 mm
Stylus	2 µm

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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, RPc, Rmr (tp (JIS, ASME) is equivalent to Rmr), RSm, RSk, RS, CR, CF, CL, R, Ar, Rx
System of protection	IP 40
Rechargeable batteries	Lithium-ion battery, min. 1200 measurements
Wide range power supply	100 to 264 V
Measuring range mm	0.350
Profile resolution	8 nm
Traversing length Lt according ISO/JIS	1.5 mm, 4.8 mm, N x Lc, variable, automatic

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
6820601	Geometric standard with sinusoidal groove profile, profile depth 3 µm	PGN 3
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