Product information

Mobile roughness measuring instrument M 310

Product features

Mobile roughness measurement – guaranteed success!

- Compact roughness measuring instrument for mobile use
- Simple and intuitive to use: as easy as using a smartphone
- Large, illuminated 4.3" TFT touch display
- Adjustable display
- Micro-USB interface for remote control via ASCII commands, e.g. via software for statistical process control or remote start control for automation solutions
- USB-A interface for connecting e.g. a USB Bluetooth adapter or the USB/Bluetooth printer
- Specification of the cutting line C in μm or in % of Rz for the characteristic values Rmr and tp
- Data backup as TXT, X3P, CSV or PDF file
- Transfer of measuring records and data optionally via Bluetooth or cable
- IATF 16949 compliant safe traceability with MarConnect
- Print directly on mobile printer (as option or directly in set with printer)
- Create complete PDF measuring records directly in the measuring instrument
- Customer-specific comments for the PDF measuring record can be entered directly into MarSurf M 310
- 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 thread 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 versions with transverse drive unit available as

Mahr



Item no.: 6910265

Technical data

Measuring principle	Stylus method	
Probe	Inductive skidded probe	
Parameters	A1, A2, Ar, Mr1, Mr2, R, R3z, RPc, RSm, Ra, Rk, Rmax, Rmr (tp (JIS, ASME) is equivalent to Rmr), Rp, Rpk, Rq, Rt, Rvk, Rx, Rz, Rz (JIS), Rz (Ry (JIS) is equivalent to Rz), Vo	
Measuring units	metric/inches	
Measuring range mm	0,350	
Profile resolution	8 nm	
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 Ic according to ISO/JIS	0,25 mm, 0,8 mm, 2,5 mm, automatic filter detection, variable	
Short stroke under ISO/JIS	Selectable	
Traversing length Lt according ISO/JIS	1.5 mm, 4.8 mm, 15 mm, N x Lc, variable, automatic	
Traversing length according ISO 12085 (MOTIF)	1 mm, 2 mm, 4 mm, 8 mm, 12 mm, 16 mm	
Evaluation lenth In according to ISO/JIS	1,25 mm, 4,0 mm, 12,5 mm	
Number n of sampling length according to ISO/JIS	Selectable: 1 to 16	
Stylus	5 μm	
Measuring force (N)	.00075	
Calibration function	dynamic; Ra, Rz, Rsm	
Storage capacity	min. 3900 profiles, min. 500,000 results, min. 1500 PDF measuring records, expandable to 32 GB with microSD card (320x memory capacity)	
Languages	German, English, French, Italian, Spanish, Portugese, Dutch, Swedish, Russian, Polish, Czech, Japanese, Chinese, Korean, Hungarian, Turkish, Romanian	
Other	Lock/password protected, date/time	
Data interface	USB A, USB B, MarConnect (bidirectional), Micro SD slot for SD / SDHC cards up to 32 GB	
System of protection	IP 40	
Rechargeable batteries	Lithium-ion battery, 3.7 V, nominal capacity 11.6 Wh, min. 1200 measurements	
Wide range power supply	100 to 264 V	
Dimensions in mm	160 mm x 77 mm x 50 mm	
Weight	3.6 KG	

Product information

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Accessories

Product type	Order no.
PHT (80 mm)	6850540
PHT 6-350	6111520
PHT 6-350/ 5μm	6111526
PHT 6-350/ 10μm	6111527
PHT 3-350	6111521
PHT 11-100	6111524
PHTR-100	6111525
PHTF 0.5-100	6111522
PT 150	6111523
ST-D	6710803
ST-F	6710806
ST-G	6710807
814 Sh	2247086
814 SR	4426100
814 SR	4426101
16 EXr	4102410
16 EXu	4102357
16 EWe	4102231
e-Stick	4102230
PP	6710401
PPS	6710604
CT 120	6710529
109 PS	4246819
PRN 10	6820420
PGN 3	6820601
PGN 1	6820602
PGN 10	6820605
PGN	9027715
PGN	6980102
815 GN	4413000
815 GN	4413001
815 GN	4413005
815 MA	4416000
	PHT (80 mm) PHT 6-350/ Sµm PhT 6-350/ 10µm PhT 3-350 PhT 3-350 PhT 1-100 PhT 1-100 PhTR-100 PhTR-100 PhTR 0.5-100 PhTF 0.5-100 PT 150 ST-G ST-G ST-G ST-G ST-G ST-G ST-G ST-G

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