Product information

Mobile roughness measuring instrument MarSurf 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 using ASCII commands, e.g. using software for statistical process control
- USB-A interface for connection of e.g. a USB Bluetooth adapter or the USB/Bluetooth printer
- Wireless transmission of measurement results via Bluetooth stick to the free MarCom software
- Remote start of measurement via cable or Bluetooth
- Connection of a scanner for automatic start of the measuring programs or reading of protocol texts via barcode or QR code
- Specification of the intersection line C in μm or in % of Rz for the parameters 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
- Display and printout of the MRC and ADC diagram
- Storage of measuring programs (quick & easy)
- 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.



Item no.: 6910260

Technical data

Positioning speed	0.5; 1.0		
Measuring principle	Stylus method		
Probe	Inductive skidded probe		
Parameters	A1, A2, Ar, CF, CL, CR, Mr1, Mr2, R, R3z, RPc, RS, RSk, RSm, Ra, Rk, Rmax, Rmr (tp (JIS, ASME) is equivalent to Rmr), Rp, RpA (ASME), Rpk, Rpm, Rpm (ASME), Rq, Rt, Rvk, Rx, 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	2 μm		
Measuring force (N)	.00075		
Calibration function	Dynamic; Ra, Rz, Rsm		
Storage capacity	Min. 3900 profiles, min. 500,000 results, min. 1500 PDF records, expandable to 32 GB with Micro SD card		
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, min. 1200 measurements		
Wide range power supply	100 to 264 V		
Dimensions in mm	160 mm x 77 mm x 50 mm		
Weight	0 KG		

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Accessories

Data cable USB bi-directional DK-U1 4102603 PHT pick-up extension 80 mm PHT (80 mm) 6850540 Standard probe 2 µm PHT 6-350 6111520 Standard probe 5 µm PHT 6-350/ 5µm 6111526 5µm 6111527 Standard probe 10 µm PHT 6-350/ 6111527 Probe for bores with a dia. larger than 3 mm Probe for grooves PHT 11-100 6111524 Probe for concave and convex surfaces Probe for grave tooth flanks PHTF 0.5-100 6111525 Probe for grave tooth flanks PHTF 0.5-100 6111522 Probe for metal sheets PT 150 6111523 Measuring stand 300 mm with cast iron base Measuring stand 300 mm with grante plate and T-slot Adjustable mounting bracket to connect to 814 SR Height measuring and scribing instrument Height measuring and scribing instrument Height measuring and scribing instrument Height measuring tipod with triangular pedestal Measuring tipod with triangular pedestal Measuring tipod with magnetic base (Massuring tipod wi	Designation	Product type	Order no.
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