Product information

Mobile roughness measuring instrument MarSurf M 310 C2 for transverse measurement

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

Item no.: **6910264**

Technical data

IP protection category	IP 40
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, Rz (JIS), Rz (Ry (JIS) is equivalent to Rz), Vo
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 lc 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 ln 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 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 (gross)	2.58 KG

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Accessories

Order no.	Designation	Product type
4102603	Data cable USB bidirectional	DK-U1
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
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
4413000	Measuring tripod with triangular pedestal	815 GN