

 Mahr

Surface roughness measuring instrument, with printer, Type: M310



Order data

Order number	499003 M310
GTIN	4059192064587
Item class	43C

Description

Version:

Portable roughness measuring instrument for precise roughness measurement and documentation conforming to standards, using the stylus tracing method. **With integral (removable) calibration standard.** Large illuminated 4.3 inch TFT touch display. Display can be rotated. Feed unit can be operated as part of the main unit and separately. LED light bar for status display (green - battery status display, red - error message, blue - measurement, data transmission), integral height adjustment, data saving as TXT, X3P, CSV and PDF files. Gauss filter to ISO 16610 – 21 (supersedes DIN EN ISO 11562), special filter to DIN EN ISO 13565 – 1, IS filter to DIN EN ISO 3274 (can be switched off). Tolerance monitoring.

Advantage:

- **Switch on and start measurement right away – intuitive, no training.**
- **MarConnect Duplex interface for starting the measurement remotely.**
- **USB A port (use for instance for a Bluetooth stick and scanner).**
- **USB B port (use for instance for mass storage or connection of a power supply unit).**
- **Documentation by optional thermal printer for printing out the profile or the results via Bluetooth or cable connection.**
- **Transmission of the measuring results by a cable connection or alternatively via Bluetooth.**
- **MarWin Roughness Viewer software for simple evaluation with generation of results print-outs from up to 100 profile files (download free of charge).**
- **Saving of measurement programs (Quick & Easy).**

- **Scanning QR codes/barcodes for starting assigned measurement programs and reading in workpiece information (scanner not included in delivery).**
- **Scanning QR codes/barcodes for starting assigned measurement programs and reading in workpiece information.**
- **Automatic cut-off selection.**
- **For direct access to the start view press the start button at the same time as the home button.**
- **Quick access to your desired functions, using the favourites list in the display.**
- **Remote control (SPC) of the MarSurf M 310 by external software.**
- **IATF 16949 compliant – reliable traceability with MarConnect.**

Supplied with:

Additionally with Bluetooth printer No. 499017.

Supplied with head advance unit, manual Vee, standard probe No. 499004 size 6 – 350, including roughness standard. Factory calibration certificate, integral height adjustment, probe guard, charger / main adapter, operating instructions, carrying satchel with shoulder strap, mini-USB cable, extension cable for head advance unit, carrying case No. 499016.

Optional extras:

Spare and special probe No. 499004, probe extension No. 499008, probe guard No. 499038, stand No. 499011; 498857, data cable for MarConnect Duplex interface No. 498941 size USB2, scanner.

Spare part:

Battery No. 499548 size AKKU.

Note:

Set for transverse sensing available on request.

Technical description

Measurement travel for longitudinal sensing	1.25 / 4.0 / 12.5 mm
Evaluation unit height	77 mm
maximum measuring range	0.014 in
Evaluation unit width	50 mm
Weight of the evaluation unit	0.5 kg
Cut-off (λ_c)	0.25 / 0.8 / 2.5 mm
Scanning speed	0.5 / 1.0 mm/s
Evaluation unit length	160 mm
maximum measuring range	350 μ m
Probe tip	2 μ m

Measurement travels to standard	1.5 mm / 4.8 mm / 15.0 mm / automatic / N × Lc freely selectable
Power supply	Rechargeable battery-powered
Reversible reading	mm / inch
Interface	Bluetooth interface
Interface	USB interface
Calibration	Q1
Calibration	Q2
Type of product	Surface roughness measuring device

Services

CalibrationSurface roughness measuring tool Type R	029200 R
CalibrationRoughness standard Type R	029220 R

Accessories

Probe guard for feed unit with projecting block Type	499038
Probe for ST2 / PS1 / PS10 / M300 and 310 Type 3-350	499004 3-350
Carrying case Type CASE	499016 CASE
Probe extension for ST2 / PS1 / PS10 / M300 and 310 Length 80 mm	499008 80
Connection cablebi-directional with data key Type USB2	498941 USB2
Measuring stand ST-G for roughness measuring instruments with granite plate Type PST-G	498857 PST-G
Stand ST-D	499011
Probe for ST2 / PS1 / PS10 / M300 and 310 Type 6-350	499004 6-350
Spare battery PS10, M310 including holder Type AKKU	499548 AKKU