Mahr

Surface roughness measuring instrument, without printer, Type: M310

Order data

Order number	499002 M310
GTIN	
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).**
· **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).**
· **Automatic cut-off selection.**

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· **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:
Supplied with head advance unit, 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.
Additionally with Bluetooth printer No. 499015.

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.

Spare part:
Battery No. 499548.

Note:
Set for transverse sensing available on request.
Calibration: Q1
maximum measuring range: 350 µm
maximum measuring range: 0.014 inch
Measurement travel for longitudinal sensing: 1.25 / 4.0 / 12.5 mm
Measurement travels to standard: 1.5 mm / 4.8 mm / 15.0 mm / automatic / N × Lc freely selectable
Cut-off (λ_c): 0.25 / 0.8 / 2.5 mm
Scanning speed: 0.5 / 1.0 mm/s

Technical description

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

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	Q2
Calibration	Q1
Type of product	Surface roughness measuring device

Services

Calibration Surface roughness measuring tool	011460
Calibration Roughness standard	018800

Accessories

Stand ST-G with T-slot Type PST-G	498857 PST-G
Connecting cable with data key Type USB2	498941 USB2
Probe for ST1 / PS1 / PS10 / M300 Type 3-350	499004 3-350
Probe for ST1 / PS1 / PS10 / M300 Type 6-350	499004 6-350
Probe extension Length 80 mm	499008 80
Stand ST-D Type	499011
Carrying case Type CASE	499016 CASE
Probe guard for feed unit	499038
Printer set for M310 surface roughness measuring tool Type PRINTER	499015 PRINTER