Wide Range of Applications



The scope of delivery for the Pocket Surf PS1 includes a simple mount for height adjustment.

This enables measurements to be performed on e.g. cones.



Perfect upside down measurement with the **Pocket Surf PS1**. All you have to do is position the part and start measurement.

This enables small workpieces to be measured without additional mounts.



Measurement on measuring stand.

The **Pocket Surf PS1** can easily be mounted on measuring stands ST-D / ST-F or ST-G.



The **Pocket Surf PS1** is the perfect entry-level measuring instrument for a wide range of standards-compliant roughness measurements.

There should be one on every shop floor!

Technical Data

Unit of measurement Measuring principle Pick-up

Languages

Stylus method

Inductive skidded pick-up, 5 μm (200 μin) rinductive skidded pick-up, 5 g/m (200 g/m) stylus tip, measuring force approx. 0.7 mN Ra, Rq, Rz corr. to Ry (JIS), Rz (JIS), Rmax, Rp, Rp (ASME), Rpm (ASME), Rpk, Rk, Rvk, Mr1, Mr2, A1, A2, Vo, Rt, R3z, RPc, Rmr corr. to tp (JIS, ASME), RSm, R, Ar, Rx 14 including 3 Asian languages Parameters (24, with tolerance limits)

Measuring range* 350 μm, 180 μm, 90 μm (0.014 in,

0.007 in, 0.004 in)

Metric, inch

Profile resolution* Filter**

0.007 III, 0.004 III) 32 nm, 16 nm, 8 nm (1.3 μin, 0.6 μin, 0.3 μin) Phase-correct profile filter (Gaussian filter) acc. to DIN EN ISO 11562, special filter acc. to DIN EN ISO 13565-1, Is filter acc. to DIN EN ISO 3274 (can be disabled)

Cutoff Ic** 0.25 mm, 0.8 mm, 2.5 mm; automatic (0.010 in, 0.030 in, 0.100 in)

Traversing length Lt** 1.75 mm, 5.6 mm, 17.5 mm; automatic (0.069 in, 0.22 in, 0.69 in)

Traversing length (MOTIF) 1 mm, 2 mm, 4 mm, 8 mm, 12 mm, 16 mm (0.04 in, 0.08 in, 0.16 in, 0.32 in, 0.48 in,

0.64 in) Selectable

Short cutoff** Evaluation length In** 1.25 mm, 4.0 mm, 12.50 mm (0.050 in,

0.15 in, 0.50 in)

Number n selectable: 1 to 5 Sampling lengths**

Calibration function Dynamic

Memory capacity Other functions Max. 15 profiles, max. 20,000 results Blocking of settings (code-protected),

date/time

Dimensions 140 mm × 50 mm × 70 mm (5.51 in × 1.97 in × 2.76 in) 400 g (0.88 lbs)

Weight Li-ion battery

Batterv USB, MarConnect (RS232) Interfaces Long-range power supply 100 V to 264 V

* changes automatically ** acc. to ISO/JIS

FEDERAL

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ABSOLUTE MOBILITY

FOR SURFACE ROUGHNESS MEASUREMENTS

Pocket Surf® PS1







Saves you time and money

• 3 parameters directly at the press of a button

Ease of operation means:

• No training: Save time

• Switch on and measure

Reliable measurement

- With integrated calibration standard
- Error-free operation thanks to standards-compliant settings

- · Automatic cutoff selection
- Evaluation possible using MarSurf XR 20 evaluation software or MarSurf XR 20 unit

Housed in a carrying case attached to your belt, this compact, handy roughness measuring instrument is always there when you need it! MARCONNECT RESET Mahr CHARGING SOCKET

Pocket Surf® PS1 - Standard

- · Pocket Surf PS1 base unit
- Drive unit
- 1 standard pick-up, conforms to standards
- Integrated battery
- Roughness standard integrated into casing
- Height adjustment
- Pick-up protection
- Charger / mains adapter
- Operating instructions
- Carrying case with shoulder strap and belt attachment
- USB cable



80 mm (3.15 in) pick-up extension, pick-ups from dia. 3 mm (0.118 in) for measurements in bores, cranked pick-up, groove pick-up, tooth flank pick-up, adapter for transverse tracing, MSP2 printer with connection cable (MarConnect), vee-block for measurements on end faces, mounting device for measuring stand ST-D / ST-F / ST-G. **PC-Software PS1 Explorer** for documentation and records.