



Pocket Surf® IV from Mahr – Standardize your metrology process and keep production moving

Description

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Pocket Surf® IV from Mahr

Standardize Your Metrology Process
And Keep Your Production Moving

Delivers fast, repeatable results with flexible
and switchable probe positions, so you can
measure roughness in difficult locations
without moving parts.

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Inconsistent roughness readings across shifts are often caused by operator-to-operator setup differences, turning inspections into debates instead of clear go/no-go decisions. And when parts must be moved to a separate inspection area or when measurements must be taken in tight or hard-to-reach locations, inspection can become a bottleneck that reduces productivity. The Mahr Pocket Surf® IV helps solve both problems by measuring common roughness parameters, delivering fast, easy-to-read

results after each traverse, and offering multiple switchable probe positions so you can inspect parts in place with less handling and fixturing.

Why Pocket Surf® IV belongs in your QC toolkit

Pocket Surf® IV adds value by making surface-finish inspection faster, more consistent, and more cost-effective, helping reduce costs and improve competitiveness by:

- Reducing scrap and rework by catching out-of-spec finish earlier, before assembly or shipment.
- Increasing throughput with quick, on-the-spot measurements that keep lines moving.
- Improving consistency across shifts with standardized parameters and repeatable checks.
- Cutting handling and labor by measuring hard-to-reach surfaces without extra part moves or complex fixturing.

Pocket Surf® IV is built for grab-and-go verification across a wide range of surfaces and part geometries, delivering an easy readout in seconds. Workflow-friendly upgrades include viewing multiple parameter results in a single measuring cycle, simplified digital calibration, and an updated output connector that supports easier communications and data output.



Choose the configuration that fits your surface and tolerance needs

Both CDI part numbers are Pocket Surf® IV set configurations—the difference is the included probe stylus radius:

- 2191800: Includes the EGH-1019 general-purpose probe with a 10 μm stylus radius (90°), plus a certified reference specimen and test certificate.
- 2191802: Includes the general-purpose probe with a 5 μm stylus radius (90°), plus a certified reference specimen and test certificate.

Select the 5 μm stylus (2191802) when you need higher sensitivity for finer finishes or tighter requirements; choose the 10 μm stylus (2191800) for robust, general-purpose shop-floor checks. Both are general-purpose, 90° conical diamond stylus probes.

Solving your applications

Pocket Surf® IV is a strong fit anywhere surface finish directly affects function, including:

- Machined shafts, journals, and bearing surfaces.
- Sealing surfaces (O-ring grooves, gasket faces) where finish impacts leakage risk.
- Coated parts where adhesion depends on surface texture.

- Bores, grooves, and cylindrical surfaces.



Ready to evaluate?

If you're standardizing surface-finish checks across production, maintenance, or incoming inspection, CDI can help you select the right probe configuration and accessories for your parts and measurement workflow. Request a quote or sample or discuss your application needs with us by calling (800) 777-7334 today.

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Category

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