

RENISHAW

RMP400

Radio Machine Probe



The **Renishaw RMP400** High Accuracy Probe features an ultra compact design with radio signal transmission for small to medium machines.

Benefits

- Reduced set-up & calibration routines provide more time for machining cycles
- Improved process control and quality
- Reduced, rework, concessions and scrap
- Less operator intervention
- Long service life
- Fast to install & easy to use
- Used with automatic tool changers

Features

- Proven Rengage Strain Gage Technology offering .025 μ m repeatability at 2σ
- Secure Frequency Hopping, Spread Spectrum (FHSS) Technology
- Globally recognized 2.4GHz waveband — compliant with regulations in all major markets
- Sealed to IPX8 for use in the harshest machining environments
- Compact probe design (40 mm \varnothing x 50 mm long)
- Unrivalled performance on complex 3D shapes, ideal for 5-Axis machine tools
- Wide variety of shanks to fit nearly all machining centers



Specifications

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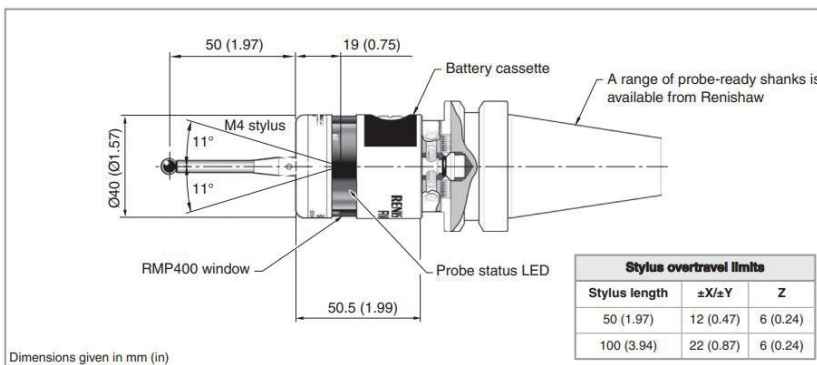
Primary application	Workpiece inspection and job set-up on multitasking machines, machining centers and gentry machining centers.
Sense directions	$\pm X \pm Y + Z$
Trigger force	XY 0.09 N / 9 gf (0.32 ozf) Z 3.34 N / 341 gf (12.01 ozf)
Stylus overtravel force XY plane (typical minimum) +Z direction (typical minimum)	1.04 N, 106 gf (3.74 ozf) 5.50 N, 561 gf (19.78 ozf)
Sealing	IPX8 (EN/IEC 60529)
Unidirectional repeatability	0.25 μm (10 μin) 2σ is valid for test velocity of 240 mm/min (9.45 ft/min) at stylus 50 mm (1.97 in) long. 0.35 μm (14 μin) 2σ is valid for test velocity of 240 mm/min (9.45 ft/min) at stylus 100 mm (3.94 in) long.

Battery Life (2 x ½ AA 3.6 V lithium-thionyl chloride)

Stand-by Life	Continuous use
Dependent on switch-on/switch-off option	Dependent on switch-on/switch-off option
230 days	165 hours

Renishaw Inspection Plus Software Cycles

- X or Y or Z single surface measure
- Web/pocket measure
- 4 point bore/boss measure
- Internal/external corner
- 3 point bore/boss vector measure
- Angled XY surface measure
- Holes on a pitch circle diameter (PCD) ie: Bolt hole patterns
- 4th axis measure. Can be modified for 4th and 5th axis applications
- Stock allowance
- Multi-stylus calibration with option to run multiple probes with different stylus angles
- Calibration on a ring or sphere available
- XYZ single surface vector measurement
- Optional software available for true 3D and form measurement



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