

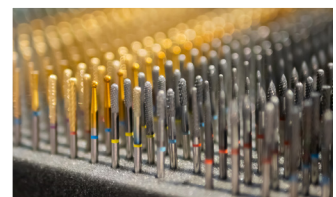


RMP24-micro: The world's smallest wireless probe for machine tools

Renishaw's miniature radio probe, measuring just 24 mm in diameter and 31 mm in length, provides fast, accurate and reliable part set-up and verification in a package that fits in the palm of your hand.

Features and benefits

- Miniature design - Ideally suited to compact machines manufacturing high-value, high-precision parts found in medical, watchmaking and micro-mechanics industries.
- Highly repeatable - High-precision components with tight tolerances can be measured with exceptional repeatability.
- Ultra-low trigger force - Helps eliminate surface and form damage when inspecting soft metal components.



Next generation radio transmission

RMP24-micro is our latest QE series probing system and communicates with the machine controller via the ultra-compact RMI-QE radio interface. It uses an updated version of our industry-proven frequency hopping spread spectrum (FHSS) transmission technology and operates within the globally recognised 2.4 GHz frequency band. This agile protocol provides robust and reliable communication in busy radio environments and is compliant with radio regulations in all major markets.

What is frequency hopping spread spectrum (FHSS) radio transmission technology?

FHSS technology enables both the probe and interface to jump from channel-to-channel whilst maintaining communication. This allows our systems to work and co-exist alongside other probes as well as other radio sources such as Wi-Fi, Bluetooth® and microwave ovens as and when they enter the same environment.



Technical highlights	
Unidirectional repeatability Maximum 2σ value in any direction	0.35 μm (14 μin) 2σ *
Transmission type	Frequency hopping spread spectrum (FHSS) radio
Receiver/interface	RMI-QE combined antenna, interface and receiver unit
Stylus trigger force XY low force XY high force Z	0.08 N, 8.2 gf (0.29 ozf) 0.16 N, 16.3 gf (0.58 ozf) 0.75 N, 76.5 gf (2.70 ozf)
Recommended styli	Steel lengths 10 mm (0.39 in) to 30 mm (1.18 in)

* Performance specification is tested at a standard test velocity of 480 mm/min (18.89 in/min) with a 10 mm stylus. Significantly higher velocity is possible depending on application requirements.

Recommended for machines with indexable spindles.



Dimensions given in mm (in)

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