

RMP60 (QE) radio machine probe



Specification

Principal application	Workpiece inspection and job set-up on multi-tasking machines, machining centres and gantry machining centres.	
Transmission type	Frequency-hopping spread spectrum (FHSS) radio Radio frequency 2400 MHz to 2483.5 MHz	
Radio approval regions	UK, EU, EFTA, Japan and USA (China exempt). For details about other regions, contact Renishaw.	
Compatible interfaces	RMI-Q or RMI-QE combined interface and receiver unit.	
Operating range	Up to 15 m (49.2 ft)	
Recommended styli	Ceramic, lengths 50 mm (1.97 in) to 150 mm (5.91 in)	
Weight (without shank)	including batteries	876 g (30.90 oz)
Switch-on / switch-off options	Radio on Spin on Shank switch on	Radio off or timer off Spin off or timer off Shank switch off
Battery life (2 × AA 3.6 V lithium-thionyl chloride)	Standby life	101 months maximum, dependent on switch-on / switch-off option.
	Continuous life	4870 hours maximum, dependent on switch-on / switch-off option.
Sense directions	±X, ±Y, +Z	
Unidirectional repeatability	1.00 µm (40 µin) 2σ ¹	
Stylus trigger force ^{2,3} XY low force XY high force Z	0.75 N, 76 gf (2.70 ozf) 1.40 N, 143 gf (5.04 ozf) 5.30 N, 540 gf (19.06 ozf)	
Environment	IP rating	IPX8, BS EN 60529:1992+A2:2013 (IEC 60529:1989+A1:1999+A2:2013)
	IK rating	IK01 (EN/IEC 62262: 2002) [for glass window]
	Storage temperature	-25 °C to +70 °C (-13 °F to +158 °F)
	Operating temperature	+5 °C to +55 °C (+41 °F to +131 °F)

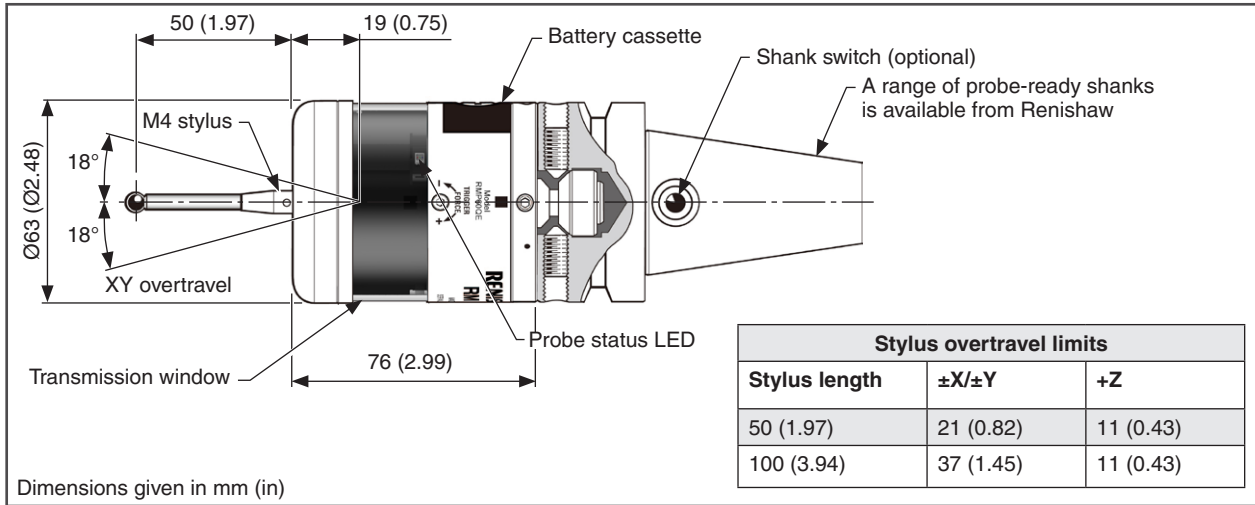
¹ Performance specification is tested at a standard test velocity of 480 mm/min (18.9 in/min) with a 50 mm stylus. Significantly higher velocity is possible depending on application requirements.

² Trigger force, which is critical in some applications, is the force exerted on the component by the stylus when the probe triggers. The maximum force applied will occur after the trigger point (overtravel). The force value depends on related variables including measuring speed, machine deceleration and system latency.

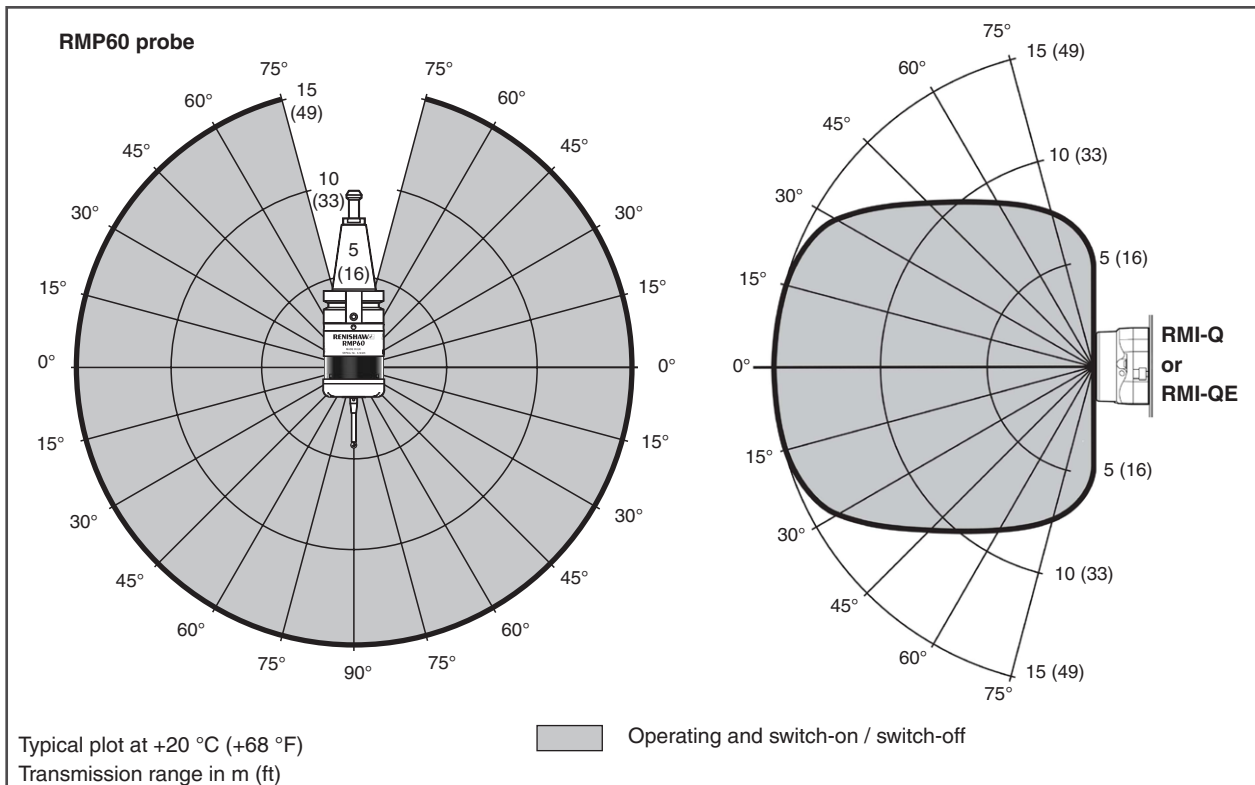
³ Tests carried out using a 50 mm stylus.

For further information and the best possible application and performance support, contact Renishaw or visit www.renishaw.com/rmp60

RMP60 dimensions



RMP60 performance envelope



Spare parts and accessories

A full range of spare parts and accessories is available. Contact Renishaw for a full list.

www.renishaw.com/rmp60

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