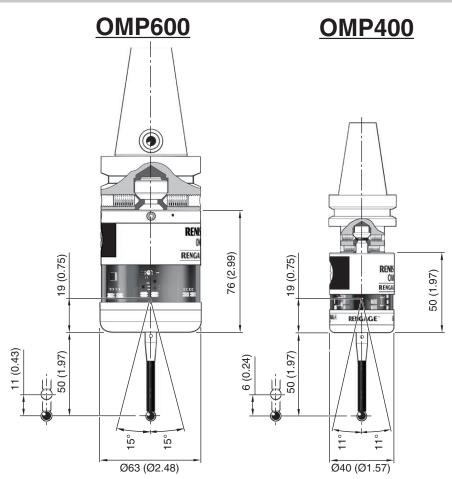


## Comparison of probes OMP400 / OMP600

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The OMP400 and OMP600 probes are the latest generation of optical transmission machine probes to use strain gauge technology and are compatible with all Renishaw's optical receivers (both "legacy" and new generation "modulated").

The OMP400 probe has been designed specifically to meet the demands of small machining centres and the growing family of high-speed machines fitted with small HSK and small taper spindles. The OMP600 probe has been designed principally for medium to large machining and multi-tasking machines.

Main advantages of the OMP400 / OMP600	OMP400	OMP600
Compact size		
Ultra compact design	$\checkmark$	
Twin probe support	$\checkmark$	$\checkmark$
Multiprobe support (P3)		$\checkmark$
Reorientation compensation circuity		$\checkmark$
Shank and spin, switch on / switch off options		$\checkmark$
Uses AA batteries		$\checkmark$
Uses ½AA batteries	$\checkmark$	
Legacy and modulated transmission	$\checkmark$	$\checkmark$
User visible diagnostic LEDs	$\checkmark$	$\checkmark$

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		OMP400	OMP600	
Principal application		Workpiece inspection and job set-up	Workpiece inspection and job set-up	
		on small to medium machining	on all sizes of machining centres	
		centres and small multi-tasking	and small to medium multi-tasking	
		machines.	machines.	
Transmission type		360° infrared optical transmission (modulated or legacy)		
Compatible interfaces		OMM-2 with OSI, OMI-2, OMI-2T, OMI-2H, OMI-2C, OMM with MI 12 or OMI		
Operating range		Up to 5 m (16.4 ft)	Up to 6 m (19.7 ft)	
Recommended styli		High modulus carbon fibre, lengths 50 mm (1.97 in) to 200 mm (7.88 in)		
Weight without shank (including batteries)		256 g (9.03 oz)	1029 g (36.30 oz)	
Switch on / switch off options		Optical on / optical off	Optical on / optical off	
		Optical on / timer off	Optical on / timer off	
			Shank on / shank off	
			Spin on / spin off	
			Spin on / timer off	
			Delayed optical on (3 sec) / timer off	
Battery type and life	Туре	2 x 1/2AA lithium-thionyl chloride	2 x AA lithium-thionyl chloride	
	Standby life	One year maximum	800 days maximum	
	Continuous use	105 hrs maximum	380 hrs maximum	
Sense directions		±X, ±Y, +Z		
Unidirectional repeatability		0.25 $\mu$ m (10 $\mu$ in) 2 $\sigma$ – 50 mm stylus length		
		0.35 $\mu$ m (14 $\mu$ in) 2 $\sigma$ – 100 mm stylus length		
X, Y (2D) form measurement deviation		±0.25 μm (10 μin) – 50 mm (1.97 in) stylus length		
		±0.25 μm (10 μin) – 100 mm (3.94 in) stylus length		
X, Y, Z (3D) form measurement deviation		±1.00 μm (40 μin) – 50 mm (1.97 in) stylus length		
		±1.75 μm (70 μin) – 100 mm (3.94 in) stylus length		
Stylus trigger force				
XY plane (typical minimum)		0.06 N, 6 gf (0.22 ozf)	0.15 N, 15 gf (0.54 ozf)	
+Z direction (typical minimum)		2.55 N, 260 gf (9.17 ozf)	1.75 N, 178 gf (6.03 ozf)	
Stylus overtravel				
XY plane (typical minimum)		±11°	±15°	
+Z direction (typical minimum)		6 mm (0.24 in)	11 mm (0.43 in)	
Sealing		IPX8 (EN/IEC 60529)		
Operating temperature		+5 °C to +50 °C (+41 °F to +122 °F)	+5 °C to +55 °C (+41 °F to +131 °F)	
Quick-start guide		A-5069-8500	A-5180-8500	
Data sheet		H-5069-8200	H-5180-8200	

For further information please refer to the relevant data sheet.

For worldwide contact details, visit www.renishaw.com/contact

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