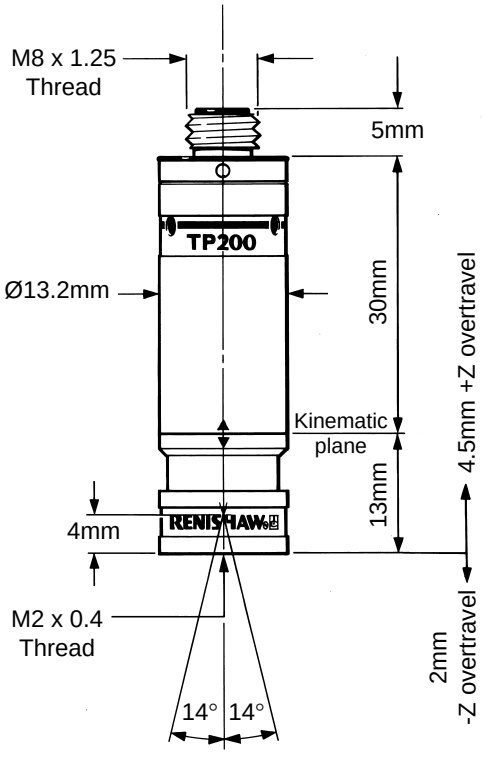
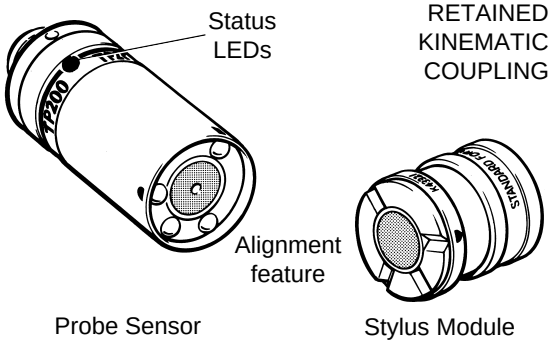
TP200 DIMENSIONS

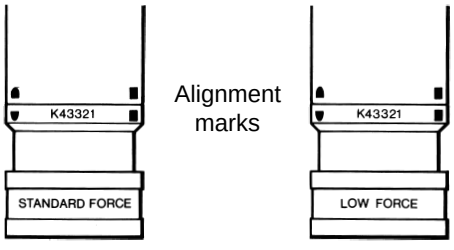


MAGNETICALLY RETAINED KINEMATIC COUPLING



Probe Sensor

Stylus Module



STANDARD FORCE MODULE
For styli up to 100mm length, >Ø1mm ball

LOW FORCE MODULE
For styli less than 50mm length, <Ø1mm ball sizes

SPECIFICATION

Application	Universal CMM precision touch trigger probe			
Sense directions	6Way: ±X, ±Y, ±Z			
Measuring performance *	10mm stylus		50mm stylus	
	TP200	(TP2)	TP200	(TP2)
2σ Unidirectional repeatability (µm)	0.30	(0.35)	0.40	(1.00)
2D Form measurement deviation (µm) ‡	±0.40	(±0.80)	±0.80	(±2.50)
3D Form measurement deviation (µm) ‡	±0.65	(±1.00)	±1.00	(±4.00)
Module operational life	10 x 10^6 measurement points minimum			
Trigger force (at 50mm) *:	XY: < 2g			
	Z: < 7g			
Overtravel force (at 50mm):	Standard Force Module		Low Force Module	
XY	15g to 35g		5g to 10g	
+Z	400g to 1400g		100g to 1000g	
-Z	800g		800g	
Overtravel:	XY: ±14°		XY: ±14°	
	+Z: 4.5mm		+Z: 4.5mm	
	-Z: 2.00mm		-Z: 2.00mm	
Maximum recommended stylus length: Steel	50mm		20mm	
Renishaw GF	100mm		50mm	
Maximum stylus mass	8g at 50mm		3g at 20mm	
Probing speeds: Operational	0.5mm/s to 50mm/s			
Optimum	1.00mm/s to 15mm/s			
Trigger rate	5 points per second			
Weight	22g (Sensor 15g, Stylus module 7g)			
Stylus mounting	M2 x 0.4 thread			
Probe mounting	M8 bush (polarity sensitive)			
Probe interface	PI 200 only			

* Specified at Trigger Level 1 at 8mm/s probing speed for standard force and low force modules

‡ Systematic errors contributed by the Probe when used for 2D circular and 3D spherical measurement