

## SFM-G1 Surface finish probe module

# Enhanced access and inspection capability for integrated surface finish measurement

The SFP2 system consists of a probe and a range of SFM modules which have been designed to suit the demands of specific parts and features encountered in a precision manufacturing environment. The probe and modules can be automatically interchanged with all other REVO® probe options, providing the flexibility to easily select the optimum tool to inspect a wide range of features.

Each SFM module is its own miniature measuring device, incorporating Renishaw's proprietary encoder system to transduce the motion of the stylus tip.



#### **Features**

The G-series of modules is designed for the measurement of small grooves and geometrical features. Feature depth, width, spacing etc. are reported instead of roughness parameter values.

### **Typical applications**

Grooved engine bores prepared for PTWA coating.

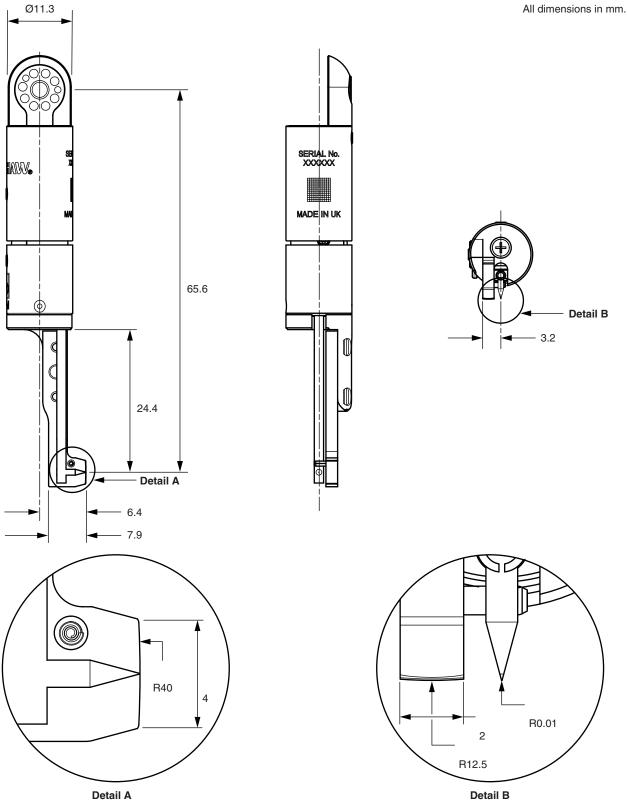
### **Specification**

Stylus tip radius (µm)	10
Typical groove feature measurement accuracy *	±10%
Feature depth range (mm)	0.02 - 0.3
Skid / stylus arrangement	Side-by-side
Skid material	DLC coated stainless steel
Nominal stylus tip protrusion beyond skid (mm)	0.5
Skid length / radius (mm)	4 / 40
Skid width / radius (mm)	2 / 12.5
Skid contact force (N)	0.2
Stylus contact force (N)	0.003
SFM / SFH knuckle adjustment range	±90°
Weight (g)	12
Resolution (nm)	1
Measurement speed (mm/s)	Up to 1
Stylus holder compatibility	SFH-1, SFH-2
Lateral scanning capability	No

<sup>\*</sup> Accuracy values are dependent upon a number of system variables. These include the machine size and configuration, scan orientation, condition of stylus tip, part fixturing system and environmental noise.

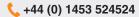


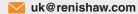




#### www.renishaw.com/SFP2







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Part no.: H-1000-2131-02-A Issued: 10.2021