SURFOMETER®

SURFACE MEASURING SYSTEMS

SYSTEM 3

- Large analog display
- Selectable cutoffs
- Selectable scales

SYSTEM 1

PRECISION DEVICES, INC.

SYSTEM 1

PDA ANALOG AMPLIFIER
PDD MOTOR DRIVE
PDL LITE-TOUCH LINKARM
PDR REFERENCE STANDARD
PDK TRACER
W/SMT SKIDMOUNT
For checking I.D.s & O.D.s from 1/8 in. (3.2 mm) to flat

or

PDM TRACER
W/SMA SKIDMOUNT
For checking O.D.s & I.D.s from 3/4 in. (19 mm) to flat — Min. I.D. 1-13/16" (46 mm)

SYSTEM 3

PDA ANALOG AMPLIFIER
PDP MOTOR DRIVE
PDR REFERENCE STANDARD
PDG SKIDLESS TRACER
PDS STYLUS ASSEMBLY

SURFOMETER SYSTEM 1 is a skid-referenced instrument for measuring R_a (roughness average). The analog system continuously averages the R_a value over the selected tracing length.

SURFOMETER SYSTEM 3 is a skidless measuring instrument designed to check the roughness average for small, difficult-to-reach surfaces. The motor drive is mounted on a granite base to minimize vibration and to provide a level, stable surface for locating the workpiece.

Systems 1, 1A & 3 replace Giddings & Lewis Groups 6L, 6M and 10 Instruments

For all PDI products, access our website — http://www.predev.com

TECHNICAL DATA

AMPLIFIER	
Parameter	R_a
Readout	3" x 5" Analog Meter
Cutoff Values	.010, .030, .100, .300 in.
	(.254, .762, 2.54, 7.62 mm)
Dynamic Range	≈5000 µ in. peak to valley
Calibration	3-patch Precision Reference Standard
Ref. Std. Accuracy	+/- 2.5% of indicated value
System Accuracy	+/- 2% of full scale reading
Power Supply	110 V AC 50/60 Hz.
	250 V., 2 A., 3AG slow blow fuse
Temperature Range	Operation— 10-30°C
	Storage— 0-40°C
Relative Humidity	10-90% non-condensing

PDD MOTOR DRIVE (skid referenced)	
Traversing speed	.3 in./sec. (7.63 mm/sec.)
Traversing Length	Adjustable to 2.5 in.

PDP MOTOR DRIVE (skidless)	
Traversing speed	.1in./sec. (2.54 mm/sec.)
Traversing length	Adjustable to 2.5 in.

TRACERS	
Stylus Tip	Diamond
Stylus Radius	.0004 in. std. (10 µm.)
Transducer type	Velocity
Stylus force	15 mN (1.5 gfmax)
Specials	Per specifications

PRECISION DEVICES, INC. 606 County Street, P.O. BOX 220, Milan, MI 48160
TELEPHONE: (734) 439-2462   FAX: (734) 439-1461   Email: sales@predev.com