# **Micrometers**

## SERIES 227 – ABSOLUTE Digimatic Adjustable Measuring Force Micrometer

- Digimatic micrometer dedicated to applications requiring a constant/low measuring force such as measuring wire, paper, and plastic/rubber parts.
- Ratchet mechanism in the thimble applies constant force to workpiece.
- Measuring force is adjustable (in steps) to suit various kinds of workpiece.
- High-accuracy measurement can be performed even by unskilled operators due to the repeatability of the automatically applied measuring force.
- Compact and easy to handle.
- Non-rotating spindle.
- Measuring faces: Carbide

# ABSOLUTE

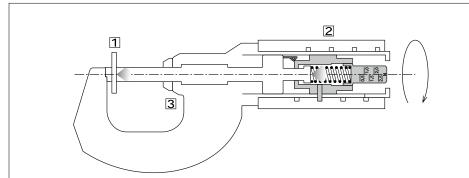


#### **SPECIFICATIONS**

Inch/Metric					
Code No.	227-211	227-213	227-215	227-216	227-217
Range	0-15 mm (06")	15-30 mm (.61.2")	0-10 mm (04")	10-20 mm (.48")	20 - 30 mm (.8 - 1.2 ")
Measuring force range	0.5 - 2.5 N		2 - 10 N		
Resolution	0.001 mm (.00005")				
Accuracy*	±2 μm (±.0001")				
Measuring force	0.5, 1.0, 1.5, 2.0, 2.5 N		2, 4, 6, 8, 10 N		
Accuracy of the selected measuring force*1	± (0.1 + the selected measuring force/10) N		$\pm$ (0.4 + the selected measuring force/10) N		
Repeatability of measuring force*1	Within 0.1 N		Within 0.4 N		
Mass	300 g	380 g	340 g	425 g	415 g
Price	£656.00	£810.00	£682.00	£720.00	£790.00

\* Excluding quantizing error. \*<sup>1</sup> These values are guaranteed when used in a horizontal orientation (within ±3 degrees)

#### DIMENSIONS



D Measuring force is generated by the action of trapping a workpiece between the spindle face and the anvil. 2 The constant-force unit applies the specified measuring force.

3 When the preset measuring force is reached, the value on the LCD is automatically held and the hold symbol appears. (To cancel the hold, reverse the thimble more than 1/10 revolution and press the hold button.)

#### **Technical Data**

Flatness:	0.3 µm (.000012")
Parallelism:	2 µm (.00008")
Measurement posture:	Horizontal orientation only
	(recommended spindle inclination:
	within ±3°)
Battery:	SR44 (1 pc), <b>938882</b>
Battery life:	Approx. 3 years under normal use
	(1 year for 227-213/6/7)

### **Functions**

Adjustable measuring force mechanism Hold Origin point setting ABS measurement system Low voltage alarm Data output Presetting (227-213/6/7)











that aims to provide the customer with the benefit of the latest technological advances serves the right to change any or all aspects of any product specification without notice Mitutoyo operates a policy of continuous improvement that aims to promitutoyo@mitutoyo-tools.ru www.mitutoyo-tools.ru