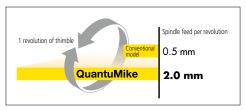
Micrometers

SERIES 293 – QuantuMike Fast Action Waterproof Digimatic Micrometer

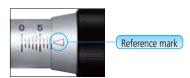
- Advanced pioneering technology has created the next generation of micrometer, the most revolutionary advance in micrometer technology since James Watt invented the instrument.
- Faster measurement is achieved by using a coarser thread which feeds the spindle by 2 mm per revolution of the thimble. This increase in thread lead has been made possible thanks to new high precision thread-cutting and testing techniques.



 QuantuMike is equipped with a function lock feature to prevent the origin point being moved by mistake during measurement.



 A graduated scale is provided on the sleeve for use with a reference mark on the thimble so that every millimetre displacement can be checked to provide extra confidence.



- Those models that provide data output allow easy incorporation of this instrument into a statistical process control or measurement system.
- There is a choice of convenient Interface Input Tools which enable the conversion of measurement data to keyboard signals and directly input them to cells in off-the-shelf spreadsheet software such as Excel.
- Excellent resistance against oil, water and dust (IP65 protection level) enables this product to be used in machining situations that include splashing coolant fluid.
- Measuring faces: Carbide.









SPECIFICATIONS

Inch/Metric						
Code No.	Range	Resolution	Accuracy*1	Flatness	Parallelism	Price
With SPC data	output					
293-180	0-25 mm (0-1")	0.001 mm (.00005")	±1 μm (±.00005")	0.3 µm (.000012")	1 μm (.00004")	£248.00
293-181	25 - 50 mm (1 - 2 ")					£265.00
293-182	50 - 75 mm (2 - 3")				2 μm (.00008")	£298.00
293-183	75 - 100 mm (3 - 4")		±2 μm (±.0001")			£331.00
Without SPC data output						
293-185	0-25 mm (0-1")	0.001 mm (.00005")	±1 μm (±.00005")	0.3 µm (.000012")	1 μm (.00004")	£167.00
293-186	25 - 50 mm (1 - 2")					£231.00
293-187	50 - 75 mm (2 - 3")				2 μm (.00008")	£243.00
293-188	75-100 mm (3-4")		±2 μm (±.0001")			£267.00

^{*1} Excluding quantizing error

Technical Data

Dust/Water

protection level: IP65 (IEC60529)*2 Measuring force: 7 to 12N

Length standard: Electromagnetic rotary sensor

Battery life: Approx. 1.2 years under normal use

Standard accessories: Setting standard 1 pc (except for

0-25 mm/0-1" models) Button type silver oxide battery (SR44, **938882**), 1 pc Spanner (**301336**), 1 pc

Functions

Origin point setting (ABS measurement system):
Pressing the ORIGIN button resets the ABS origin at the current spindle position. Origin values can be set depending

Zero setting (INC measurement system):

A brief press on the ZERO/ABS button sets display to zero at the current spindle position and switches to the incremental (INC) measuring mode. A longer press resets to the ABS measuring mode.

Hold:

Pressing the HOLD button freezes the current value in the display. This function is useful for preserving a measurement in situations of poor visibility when the instrument must be moved away from the workpiece before the reading can be recorded.

Function lock:

This function allows the ORIGIN (origin point setting) function and the ZERO (zero setting) function to be locked to prevent these points being reset accidentally.

Auto power ON/OFF:

The reading on the LCD disappears after this instrument is idle for approx. 20 minutes, but the origin point is retained. Turning the spindle causes the reading on the LCD to reappear.

Data output:

Models equipped with this function have an output port for transferring measurement data to a Statistical Process Control (SPC) system.

Error alarm:

In the unlikely event of a display overflow or calculation error, an error message is displayed and measurement stops. Measurement cannot continue until the error is corrected. Also, if the battery voltage drops below a certain point, the battery indicator will turn on before measurement becomes impossible, warning the user that the battery needs to be replaced.



^{*2} Anti-corrosion treatment is required after use.