

# Mu-checker

## Display unit for Mu-checker (analog/digital) SERIES 519 — Electronic micrometer

- Single touch zero-set function is standard.
- Switchable measurement ranges make the Mu-checker suitable for a range of applications, especially those that involve moderately fast-changing measurement values which suit the use of analog readout.
- Two types of analog display are available and one digital type.

### Analog Mu-checker



Standard type  
**519-551**  
**M-551**



Differential type  
**519-553**  
**M-553**

### SPECIFICATIONS

	Metric		Inch	
Order No.	<b>519-551*</b>	<b>519-553*</b>	<b>519-552*</b>	<b>519-554*</b>
Model	<b>M-551</b>	<b>M-553</b>	<b>M-552</b>	<b>M-554</b>
Type	Standard type (one probe required)	Differential type (one/two probes required)	Standard type (one probe required)	Differential type (one/two probes required)
Display range	$\pm 5 \mu\text{m}/\pm 15 \mu\text{m}/\pm 50 \mu\text{m}/\pm 150 \mu\text{m}/\pm 500 \mu\text{m}/\pm 1500 \mu\text{m}$		$\pm 5 \mu\text{m}/\pm 15 \mu\text{m}/\pm 50 \mu\text{m}/\pm 150 \mu\text{m}/\pm 500 \mu\text{m}/\pm 1500 \mu\text{m}$ $\pm 0.00015 \text{ in}/\pm 0.0005 \text{ in}/\pm 0.0015 \text{ in}/\pm 0.005 \text{ in}/\pm 0.015 \text{ in}/\pm 0.05 \text{ in}$	
Graduation	0.1 $\mu\text{m}$ /0.5 $\mu\text{m}$ /1 $\mu\text{m}$ /5 $\mu\text{m}$ /10 $\mu\text{m}$ /50 $\mu\text{m}$		0.1 $\mu\text{m}$ /0.5 $\mu\text{m}$ /1 $\mu\text{m}$ /5 $\mu\text{m}$ /10 $\mu\text{m}$ /50 $\mu\text{m}$ 0.000005 in/0.00001 in/0.00005 in/0.0001 in/0.0005 in/0.001 in	
Differential mode	$\pm A$	$\pm A, \pm B, \pm A \pm B$	$\pm A$	$\pm A, \pm B, \pm A \pm B$
Display accuracy (linearity)	$\pm 1\%$ of full-scale reading			
Analog output	$\pm 1.0 \text{ V}$ at full-scale reading			
Analog output accuracy	Within $\pm 0.1\%$ of full-scale reading (excluding probe)			
Zero-setting adjustment range	$\pm 15\%/FS$ (error: $\pm 0.2\%/FS$ )			
External dimensions	134 (W) $\times$ 183 (D) $\times$ 208 (H) mm			
Mass	2.4 kg			
Power input	AC adapter 100, 120, 220, 240 V AC 50/60 Hz			
Probe	Various probes (refer to pages G-21 and G-22)			

\* To denote your AC power cable add the following suffixes to the order No.: A for UL/CSA, D for CEE, DC for CCC, E for BS, K for KC, C and No suffix are required for PSE.

### Digital Mu-checker



Digital Mu-checker  
**519-561**  
**M-561**

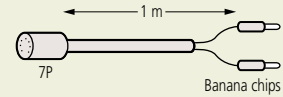
### SPECIFICATIONS

	Metric	Inch
Order No.	<b>519-561*</b>	<b>519-562*</b>
Model	<b>M-561</b>	<b>M-562</b>
Type	Differential type digital Mu-Checker (2 connecting heads)	
Display range	$\pm 2.000 \text{ mm}/\pm 0.2000 \text{ mm}$	$\pm 2.000 \text{ mm}/\pm 0.2000 \text{ mm}/\pm 0.08 \text{ in}/\pm 0.008 \text{ in}$
Resolution	0.001 mm/0.0001 mm	0.001 mm/0.0001 mm/0.00005 in/0.000005 in
Differential mode	$\pm A, \pm B, \pm A \pm B$	
Measurement mode	ABS/CMP	
Analog output	$\pm 1 \text{ V}$ at full-scale reading	
Digital output	Digimatic code out	
External dimensions	134 (W) $\times$ 183 (D) $\times$ 208 (H) mm	
Mass	Approx. 2.6 kg	
Power input	AC adapter 100, 120, 220, 240 V AC 50/60 Hz	
Probe	Various probes (refer to pages G-21 and G-22)	

\* To denote your AC power cable add the following suffixes to the order No.: A for UL/CSA, D for CEE, DC for CCC, E for BS, K for KC, C and No suffix are required for PSE.

### Optional Accessories

- SPC Cable for connecting digital Mu-checker (**936937**)  
Used for connecting to the Digimatic mini-processor. (Not suitable for analog Mu-checkers)
- Output cable A (**934795**)  
Used for connecting to external devices, such as data recorders, etc.



- Analog, limit out (7P) connector (**529035**)  
Used for output to external data recorders, sequencers, etc.