



DIGITAL LENGTH
MEASURING
SYSTEM

DIGIMICRO

MF-1001 / MF-501 / MH-15M

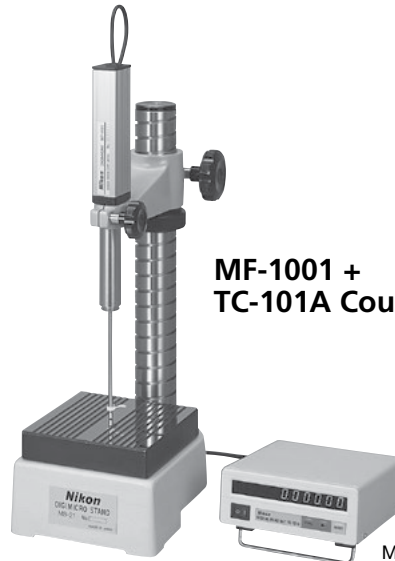


Readings from 1μm to 0.01μm; Extreme Accuracy Guaranteed



**MF-1001 +
MFC-101A Counter**

MF-1001 + MFC-101A counter + MS-21



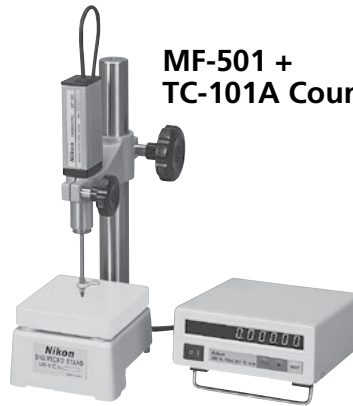
**MF-1001 +
TC-101A Counter**

MF-1001 + TC-101A counter + MS-21



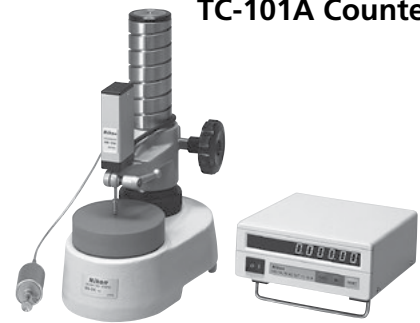
**MF-501 +
MFC-101A Counter**

MF-501 + MFC-101A counter + MS-11C



**MF-501 +
TC-101A Counter**

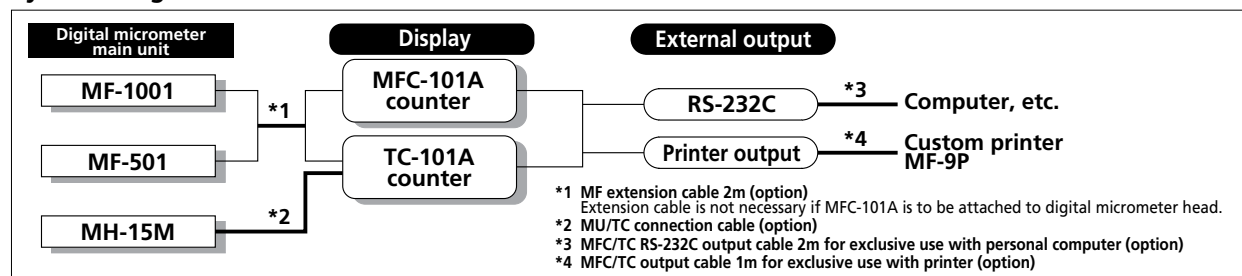
MF-501 + TC-101A counter + MS-11C



**MH-15M +
TC-101A Counter**

MH-15M + TC-101A counter + MS-5C

System Diagram

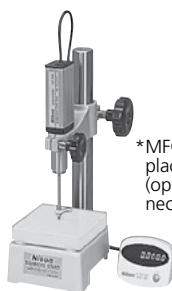


Specifications

Main unit + counter	MF-1001 + MFC-101A	MF-1001 + TC-101A	MF-501 + MFC-101A	MF-501 + TC-101A	MH-15M + TC-101A
Measurement range	0-100 mm		0-50 mm		0-15 mm
Minimum readable value	0.1μm; can be switched to 0.5μm or 1μm	0.01μm; can be switched to 0.05μm, 0.1μm, 1μm, or 5μm	0.1μm; can be switched to 0.5μm or 1μm	0.01μm; can be switched to 0.05μm, 0.1μm, 1μm, or 5μm	
Accuracy (20°C)	3μm		1μm		0.7μm
Response speed	500 mm/sec. or less				100 mm/sec. or less
Measuring force	Downward 1.225 to 1.813N (variable to about 0.441N), lateral 0.637 to 1.225N		Downward 1.127 to 1.617N (variable to about 0.294N), lateral 0.637 to 1.225N		Upward 0.245N, downward 0.637N, lateral 0.441N * With lifting release
External output	RS-232C and dedicated printer output				
Operating temperature	0 to +40°C				
Weight (main unit)	Approx. 480g		Approx. 310g		Approx. 220g

Accessories

Counters



*MFC-101A counter placed next to equipment (optional cord is necessary to connect)



MFC-101A

A compact, single-shaft counter for exclusive use with MF-501 and MF-1001. Offers display and resolution switching, directing switching, and display unit switching functions. The MFC-101A can be used attached to the head or placed next to equipment.

Specifications

Display	7-segment LED (green); 8 digits (including - sign); zero blanking; floating minus sign
Minimum readable value	0.1 μ m (can be switched to 0.5 μ m or 1 μ m)
Other functions	Reset Error alarm (excess speed, etc.) RS-232C output Dedicated printer output
Input power supply	Dedicated AC adapter (12V 350 mA)
Ambient temperature	Operating temperature: 0 to +40 °C Storage temperature: -20 to +60 °C
Compatible micrometers	MF-501, MF-1001
Dimensions (mm)	80 (W) X 60 (H) X 25.5 (D) [32.2 (D) with connectors]
Weight	Approx. 95g

TC-101A

Smallest readable value is 0.01 μ m. The TC-101A counter can be used with older digital micrometers and rotary encoders.

Specifications

Display	7-segment LED (green); 10 digits (including - sign); zero blanking; floating minus sign
Minimum readable value	0.01 μ m (can be switched to 0.05 μ m, 0.1 μ m, 0.5 μ m, 1 μ m, or 5 μ m)
Other functions	Reset/preset/pulse check Error alarm (excess speed, etc.) RS-232C output Dedicated printer output
Input power supply	Dedicated AC adapter (12V 2.5A)
Ambient temperature	Operating temperature: 0 to +40 °C Storage temperature: -20 to +60 °C
Compatible micrometers	MF-501, MF-1001, previous micrometers MU Series, rotary encoders
Dimensions (mm)	150 (W) X 67 (H) X 176 (D)
Weight	Approx. 980 kg (excluding AC adapter)

Printer

MF-9P

Connects to MFC-101A and TC-101A counters, and not only prints, but also performs statistical calculations, judges pass or reject, and creates histograms, all with simple key operations, permitting highly efficient data processing.



Specifications

Printing method	Thermal line printing
Characters	36 x 24 dots (enlargement), 24 x 16 dots (standard)
Printing speed	Approx. 0.8 second per line
Power supply	AC 100V, 50/60 Hz with 6V-2A AC adapter, or 4 alkaline (LR6), or Ni-MH AA batteries. Manganese batteries cannot be used.
Operating temperature	0 to +45 °C (with AC adapter), 10 to +45 °C (with batteries)
Dimensions (mm)	94 (W) x 201 (D) x 75.2 (H)
Weight	390g (main body only)
Printouts	Mode 0: measurements; pass/reject judgment. Mode 1: measurements; pass/reject judgment; number of data; maximum value; minimum value; range; average value; standard deviation; number of defective products; percent defective; process capability index; histogram. Mode 2: mode 1 + D chart. Mode 3: control limit data for the creation of control charts. All Modes: date and time
Processing capacity	Mode 0: 100,000 data. Modes 1, 2: 9,999 data. Mode 3: sample size 10 x sub-group 9,999 = 99,990 data
Output function	Pass/reject judgment output
Timer input	0.3 second, 1 second, 5 seconds, 30 seconds, 1 minute, 30 minutes, 60 minutes
Standard accessories	AC adapter; 1 roll of recording paper (total length 48m)

*Connection cable is an option.

Dust Bellows

Protects head spindle of the digital micrometer head from dust and dirt, increasing the equipment lifetime.



Measurement attachments

Standard measurement attachment



Pin attachment



Plastic attachment



Off-center attachment



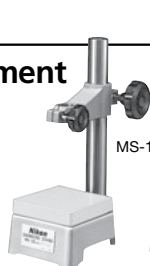
Flat attachment



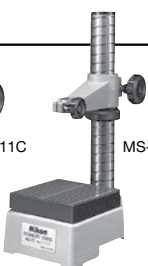
Roller attachment



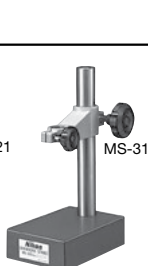
Measurement stands



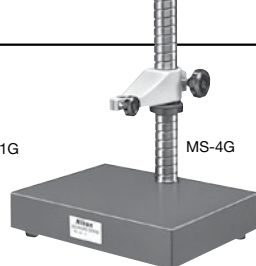
MS-11C



MS-21



MS-31G



MS-4G



MS-5C

Specifications

	Platform material	Stage dimensions
MS-11C	Ceramics	110 x 110 mm
MS-21	Steel	150 x 150 mm
MS-31G*	Granite	120 x 180 mm
MS-4G	Granite	400 x 300 mm
MS-5C	Ceramics	ø100 mm

* It is also possible to place the object being measured on a large platform, and make measurements using the lower surface as a reference.

