

**SAVE
10%**



SENSOR SYSTEMS PROMOTION

Mu-Checkers, Linear Gages, Counters and Displays

Effective March 1, 2017 through June 30, 2017

SENSOR PROMOTION



Mitutoyo Quality

Sensorpak Software

Dynamically Displays Positions, Tolerances and Calculations, and Acquires Basic Data from EH, EV Counters and Litematics.

02NGB073 Sensorpak V3.0 w/cable (Win 7,8.1 - 32/64 bit)



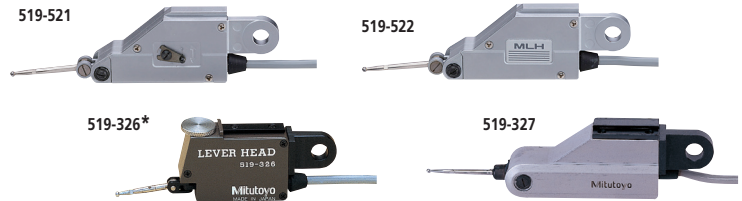
List: \$870.00 **Promo: \$783.00**

Mu-Checker Probes (Lever head)

Lever probes are available in two types. The most common type uses a pivoted stylus so the contact point moves in a circular arc; the 519-326 uses a parallel translation leaf-spring mechanism so contact point movement is linear; and requires no cosine correction.

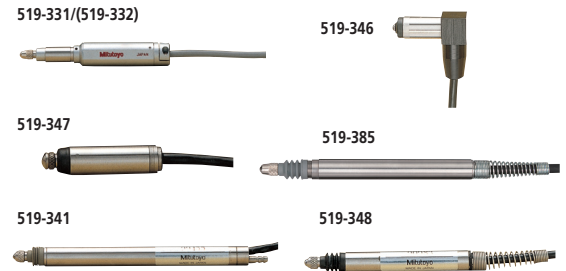
Order No.	Range	Stroke	Linearity(%)	Measuring force(N)	List	Promo
519-521	±0.5mm	±0.6mm	±0.3	Approx. 0.2	\$630.00	\$567.00
519-522	±0.5mm	±0.6mm	±0.3	Approx. 0.02	\$1,030.00	\$927.00
519-326*	±0.5mm	±0.6mm	±0.3	Approx. 0.15	\$1,370.00	\$1,233.00
519-327	±0.5mm	±0.65mm	±0.5	Approx. 0.15	\$1,530.00	\$1,377.00

* Parallel translation movement.



Mu-Checker Probes (Cartridge head)

Order No.	Range(mm)	Stroke(mm)	Stem	Linearity (%)	Measuring force(N)	List	Promo
519-331	±0.5	±0.65	ø8mm	±0.5	0.25	\$415.00	\$373.50
519-332	±0.5	±0.65	ø3/8"	±0.5	0.25	\$425.00	\$382.50
519-346	±0.25	+0.34 -0.26	ø8mm	±0.3	0.7	\$1,235.00	\$1,111.50
519-347	±0.5	+0.85 -0.65	ø8mm	±0.3	0.7	\$1,200.00	\$1,080.00
519-385	±1.5	+2.35 -1.65	ø8mm	±0.3	0.7	\$1,035.00	\$931.50
519-341	±2.5	+3.2 -2.8	ø8mm	±0.5	0.9	\$1,830.00	\$1,647.00
519-348	±1.0	+1.35 -1.15	ø8mm	±0.3	0.7	\$1,250.00	\$1,125.00



Mu-Checker Counters

Order No.	519-552A	519-554A	519-562A	519-355 [†]
Number of gage inputs	1	2	2	6
Display range	±5µm/±15µm/±50µm/±150µm/±500µm/±1500µm ±.00015"/±.0005"/±.0015"/±.005"/±.015"/±.05"		±2.000mm/±0.2000mm/±.08"/±.008"	±2.000, ±0.200
Resolution	0.1µm/0.5µm/1µm/5µm/10µm/50µm .000005"/.00001"/.00005"/.0001"/.0005"/.001"		0.001mm/0.0001mm/.00005"/.000005"	0.001mm/0.0001mm/.00005"/.000005"
Differential mode	±A	±A, ±B, ±A±B	±A, ±B, ±A±B	Multiple
Display accuracy (linearity)	±1% / ±full scale		-	-
Output	Analog ±1V ±full scale		Analog ±1V ±full scale, Digimatic code out	RS-232C, BCD, tolerance judgment and segment Optional*
Power input	AC adapter 120v 60Hz			
List	\$1,490.00	\$1,690.00	\$2,090.00	\$2,190.00
Promo	\$1,341.00	\$1,521.00	\$1,881.00	\$1,971.00

* Optional AC Adapter Components: 02ZAA010, 02ADN460, 02ADD930

- Single touch zero-set function is standard.
- Switchable measurement ranges make the Mu-Checker suitable for a range of applications.



Standard type
519-552A



Differential type
519-554A



Digital Mu-Checker
519-562A

- Single touch zero-set function is standard.
- Switchable measurement ranges make the Mu-Checker suitable for a range of applications.
- Dual input

- Multi-channel functionality up to 6 gages.
- Up to ten counters can be connected to one PC using the RS Link function allowing a maximum of 60 gages.
- Maximum, minimum and runout measurement between channels is possible in addition to normal measurement on individual channels.



519-355[†]

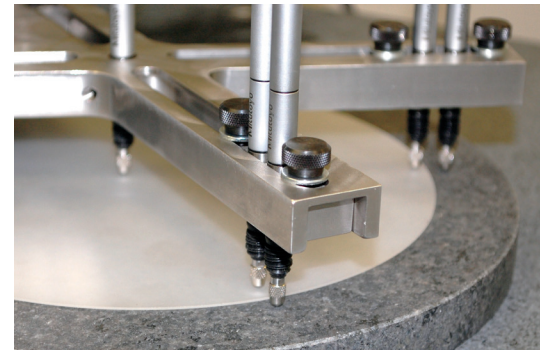
[†] Optional D-EV counter on page 4

Linear Gage LGK – Slim, Robust

- > Ideal for integration into harsh environments such as automation applications.
- > Compact model offers the vibration/shock resistance of the proven LGF series at 1/5 the size
- > Excellent sliding durability improved to remain serviceable for at least 15 million cycles (in-house testing).
- > Excellent shock resistance, 100g/11ms (IEC 60068-2-27).



IP66



Order No.	Range	Resolution	Stem Dia	Accuracy (20°C)	List	Promo
542-158	10mm (.4")	0.1µm (.000005")	ø8mm	(0.8+L/50) µm (L=mm)	\$1,320.00	\$1,188.00
542-157	10mm (.4")	0.5µm (.000020")	ø8mm	(1.5+L/50) µm (L=mm)	\$856.00	\$770.40
542-156	10mm (.4")	1µm (.000050")	ø8mm	(1.5+L/50) µm (L=mm)	\$856.00	\$770.40

Linear Gage LGF – Standard Dimensions, Robust

Order No.	Range	Resolution	Stem Dia	Accuracy (20°C)	List	Promo
542-181	.4" (10mm)	0.1µm (.000005")	ø8mm	(0.8+L/50)	\$1,020.00	\$918.00
542-182	1" (25mm)	0.1µm (.000005")	ø15mm	(0.8+L/50)	\$1,290.00	\$1,161.00
542-161	.4" (10mm)	1µm (.000050")	ø8mm	(1.5+L/50)	\$629.00	\$566.10
542-162	1" (25mm)	1µm (.000050")	ø15mm	(1.5+L/50)	\$810.00	\$729.00
542-612	2" (50mm)	5µm (.0002")	ø15mm	(7.5+L/50)µm	\$547.00	\$492.30
542-163	2" (50mm)	1µm (.000050")	ø15mm	(1.5+L/50)	\$979.00	\$881.10
542-613	2" (50mm)	5µm (.0002")	ø15mm	(7.5+L/50)µm	\$601.00	\$540.90

- > Excellent vibration/shock resistance due to the design of the spindle guide section.
- > Sliding durability improved to remain serviceable for at least 15 million cycles (in-house testing).
- > Shock resistance, 100g/11ms (IEC 60068-2-27)

IP66



Linear Gage LGB - Slim

- > Compact body is a great choice as a built-in sensor.
- > The spindle guide uses high-precision linear ball bearings for smooth movement and great durability.
- > Nut clamp type is also available.

Order No.	Range	Resolution	Stem Dia	Accuracy (20°C)	List	Promo
542-204	5mm (.2")	1µm (.000050")	ø8mm	2µm	\$1,210.00	\$1,089.00
542-222	10mm (.4")	1µm (.000050")	ø8mm	2µm	\$846.00	\$761.40
542-230 ¹	10mm (.4")	1µm (.000050")	ø8mm	2µm	\$1,090.00	\$981.00
542-223 ²	10mm (.4")	1µm (.000050")	ø8mm	2µm	\$1,340.00	\$1,206.00

¹air extend ²air retract

IP54



Linear Gage LG – Long Range

Order No.	Range	Resolution	Stem Dia	Accuracy (20°C)	List	Promo
542-313 Motorized	100mm (4")	0.1µm (.000005")	ø20mm	(2+L/100)µm ≤ 2.5µm (L=mm)	\$3,790.00	\$3,411.00
542-332	100mm (4")	1µm (.000050")	ø20mm	(2.5+L/100) µm ≤ 3µm (L=mm)	\$2,040.00	\$1,836.00
542-316	100mm (4")	0.1µm (.000005")	ø20mm	(2+L/100)µm ≤ 2.5µm (L=mm)	\$2,090.00	\$1,881.00



- > Long stroke (100mm), motor-driven spindle. (542-313)
- > IP66 models are also available.

Linear Gage LGD – Absolute, Standard Dimensions, Robust

- > Absolute encoder makes it possible to maintain the reference point even when powered off.
- > Excellent protection against dust and splashing (IP66)
- > The spindle guide uses high-precision linear ball bearings for extremely smooth movement and exceptional durability.
- > Sliding durability improved to remain serviceable for at least 15 million cycles (in-house testing).
- > Excellent shock resistance, 100g/11ms (IEC 60068-2-27)

Order No.	Range	Resolution	Stem Dia	Accuracy (20°C)	List	Promo
575-326	.4" / 10mm	.0005" / 10µm	ø8mm	.001" / 20µm	\$549.00	\$494.10
575-327	1" / 25mm	.0005" / 10µm	ø15mm	.001" / 20µm	\$576.00	\$518.40
575-328	2" / 50mm	.0005" / 10µm	ø15mm	30µm	\$692.00	\$622.80

IP66



Linear Gage LGS – Absolute

Order No.	Range	Resolution	Stem Dia	Accuracy (20°C)	List	Promo
575-313	.5"	.0005"	ø9.52=3/8"	.0008"	\$241.00	\$216.90
575-303	12.7mm	10µm	ø8mm	15µm	\$241.00	\$216.90

- > Absolute encoder makes it possible to maintain the reference point even when powered off.
- > Excellent protection against dust and splashing water (IP66) on the factory floor.

IP66



EH Counter Multi-function Type

- > Maximum value, minimum value, and TIR (runout) measurements are possible
- > The 2-gage input type is capable of addition, subtraction and speed
- > DIN compatible Panel-mounting type and DIN size (144 x 72mm).
- > The RS Link function permits multiple EH counters (10 units maximum) to be connected by daisy chain
- > The standard RS-232C output allows fast communication with a PC or PLC
- > USB output (for Sensorpak only)



542-075A



542-071A/542-072A



542-007A

EC Counter Single-function Type

- > Simple Display for LGD, LGS, or other Digimatic Gages
- > Produces 3-step/5-step, 3 types of tolerance output and BCD output.
- > Employs DIN size (96x48mm) and mount-on-panel configuration

Model	EH-101P	EH-102P	EH-102D	EC-101D
Order No.	542-075A	542-071A	542-072A	542-007A
Applicable gage	LGK, LGF, LGB, LGH (0.1um), LG		LGD, LGS, ID, SD	
Number of gage input	1 (Single-display)	2 (Double-display)	2 (Double-display)	1 (Single-display)
Resolution (Depending on the linear gage type connected)	.00005" to .0005" / 0.001mm to 0.01mm		Automatic setting by gage	
Tolerance judgment display	LED display (3 step: Amber, Green, Red / 5 step: Amber, Amber flash, Green, Red flash, Red)			LED display (3 step: Amber, Green, Red)
List	\$975.00	\$1,190.00	\$1,190.00	\$362.00
Promo	\$877.50	\$1,071.00	\$1,071.00	\$325.80

EG Counter – Single-function Type

- > Simple Display, Multi-Step Go/No Go Judgment and Output, BCD Output, Open Collector
- > Employs DIN size (96x48mm) and mount-on-panel configuration to facilitate system integration.



EB Counter – Single-function Type

- > Simple Display, Multi-Step Go/No-Go Judgment, BCD Output and Analog Output
- > Employs DIN size (96x48mm) and mount-on-panel configuration

Package No. (counter w/AC adapters)	64PKA131	64PKA132	64PKA134	64PKA135
Applicable gage head	LGE, LGF, LGK, LGB, LGM, LG, LGH (Not compatible with LGH110, reference point or sine wave models)	LGD, LGS, ID, SD	LGF, LGK, LGE, LGB (not compatible with reference point or sine wave output type models)	LGS, LGD, LGD-M
Number of gage inputs	1	1	1	1
Maximum input frequency	1.25MHz, response speed depends on gage specification.	Response speed depends on gage specification.	1.25MHz (2-phase square wave), response speed depends on gage specification.	Response speed depends on gage specification.
Resolution	0.01mm to 0.0005mm / .001" to .00005"	Automatic setting by gage	0.01mm to 0.0005mm / .0005" to .00005"	Depends on gage specification.
List	\$799.00	\$799.00	\$799.00	\$799.00
Promo	\$719.10	\$719.10	\$719.10	\$719.10

EV Counter – Multi-function, Multiple Input Type

Pkg No. (counter w/AC adapter)	64PKA137	64PKA138
Applicable gage head	LGE, LGF, LGK, LGB, LGM, LG not compatible with reference point mark, sine wave output type or 0.1um resolution models.	LGD, LGS
Number of input channels	6	6
Maximum input frequency	1.25MHz (2-phase square wave), response speed depends on gage specification. Max. counting speed: 5MHz	Response speed depends on gage specification.
Resolution	10um to 5um / .0005" to .00005"	Depends on gage specification.
List	\$1,749.00	\$1,749.00
Promo	\$1,574.10	\$1,574.10

- > Up to six gages can be connected to one unit, extendable up to 10 units (60 gages at maximum) using the RS Link function to facilitate the configuration of a multi-point measurement system.
- > A range of output modes to choose from: I/O output for tolerance judgment and segment output, BCD data output and RS-232C output are available.
- > In addition to normal measurement, peak or differential measurement between gages is possible.



64PKA137



64PKA138

D-EV Display Unit for EV Counter

Order No.	02ADD400
Number of connections	1 EV counter per unit
Number of digits	Sign plus 6 digits (8 digits internal to EV counter)
Function of operation switch	Channel switching, measurement mode switching (current data, maximum value, minimum value, runout), parameter setting, presetting, tolerance setting
Input/output	RS Link connectors: 1 each for IN, OUT
Power supply (optional)*	Terminal block (M3 screw), 12 - 24V DC, 200mA
List	\$399.00
Promo	\$359.10



- > Display unit for the EV counter.
- > Allows set up of EV counter without a personal computer or other equipment.

Optional Accessories*

- AC adapter: No.02ADN460*1
 - AC cable (USA): 02ZAA010*1
 - Terminal connecting cable: 02ADD930*2
- *1: Required when connecting with EV-16P/D/Z.
*2: Required when using AC adapter.
Note: AC adapters may not be needed if using power from EV counter to power the D-EV.