

DIGITAL GAGE PROBES



SPRING PUSH CARTRIDGE TYPE



AIR ADVANCE / VACUUM RETRACT TYPE



LEVER TYPE

LINEAR ENCODER TYPE



A wide variety of linear encoders, lever type or plunger type gage heads are available to interface with the MP-2, MP-4 and MP-8 Metrology Processor. The probes can be mounted in a variety of existing or available gage fixtures for inspection of diameter, thickness, length, concentricity, squareness, flatness, taper, depth and more. Probes are available with resolution as fine as five millionths of an inch (.2 micron) and strokes up to one inch (25mm). The digital probes are permanently calibrated and are linear throughout their full stroke. Brunswick Instrument can supply the right combination of probes for your application.



Brunswick Instrument

Sharing your commitment to quality

Gage Probe Selection:



SPRING PUSH CARTRIDGE TYPE

Model	Stroke	Max Resolution
DP/2/S	2mm/.078"	.0002mm/.000005"
DP/5/S	5mm/.196"	.0005mm/.000010"
DP/10/S	10mm/.393"	.001mm/.000020"
DP/20/S	20mm/.787"	.002mm/.000050"

Spring Push type probes are available in either 8mm or .375" body diameter, either M2.5 or 4-48 contact tip threads and are supplied with carbide ball contacts and 6ft cable. Nominal contact force is 70 grams.



AIR ADVANCE / VACUUM RETRACT TYPE

Air Pressure Advance Models:

Model	Stroke	Max Resolution
DP/2/P	2mm/.078"	.0002mm/.000005"
DP/5/P	5mm/.196"	.0005mm/.000010"
DP/10/P	10mm/.393"	.001mm/.000020"
DP/20/P	20mm/.787"	.002mm/.000050"

Vacuum Retract Models:

Model	Stroke	Max Resolution
DP/2/V	2mm/.078"	.0002mm/.000005"
DP/5/V	5mm/.196"	.0005mm/.000010"
DP/10/V	10mm/.393"	.001mm/.000020"
DP/20/V	20mm/.787"	.002mm/.000050"

Air Advance / Vacuum Retract type probes are available in either 8mm or .375" body diameter, either M2.5 or 4-48 contact tip threads and are supplied with carbide ball contacts and 6ft cable. The barb fittings accept 3/32" ID air tubing.



LEVER TYPE

Model	Stroke	Max Resolution
DL05	.5mm/.019"	.0002mm/.000005"

The stylus lever may be positioned at up to a 90 degree angle to the probe body centerline. The probe may be mounted to achieve either upward or downward contact force of approximately 5 grams.

The Lever Probe is available with .375" body diameter only. Ball diameter at the tip is available in .015", .031", .062" and .100" sizes. A dovetail or lug type mounting adapter is available. The cable length is 6ft.

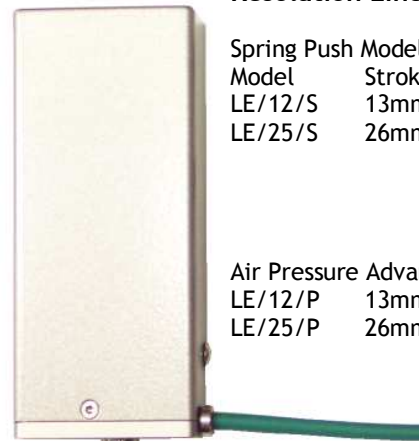
.0002mm / .000005" Resolution Linear Encoders

Spring Push Models:

Model	Stroke
LE/12/S	13mm / .500"
LE/25/S	26mm/1.000"

Air Pressure Advance Models:

Model	Stroke
LE/12/P	13mm / .500"
LE/25/P	26mm / 1.000"



LINEAR ENCODER TYPE

Linear Encoder type probes are available with either 8mm or .375" mounting diameter and have M2.5 contact tip threads. A finger lift lever is supplied as shown.

Other probe options:

Many other probe types, sizes and options are available on request. Probes are available with reduced contact forces, armored cables and a wide variety of contact tip styles, shapes and materials.

Digimatic Input Module:

The MP-2, MP-4 and MP-8 Metrology Processor may also accept data from Mitutoyo brand or compatible instruments using the Model DIM Digimatic Input Module.

Analog Input Module:

DC analog voltage signals can be input with the Model DA04 Analog Input Module.

Voltage Range	Max Resolution
+/-10VDC	.002V

Using the Metrology Processor's mathematic data manipulation capabilities, the input voltage readings can be easily converted to meaningful dimensional results.



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