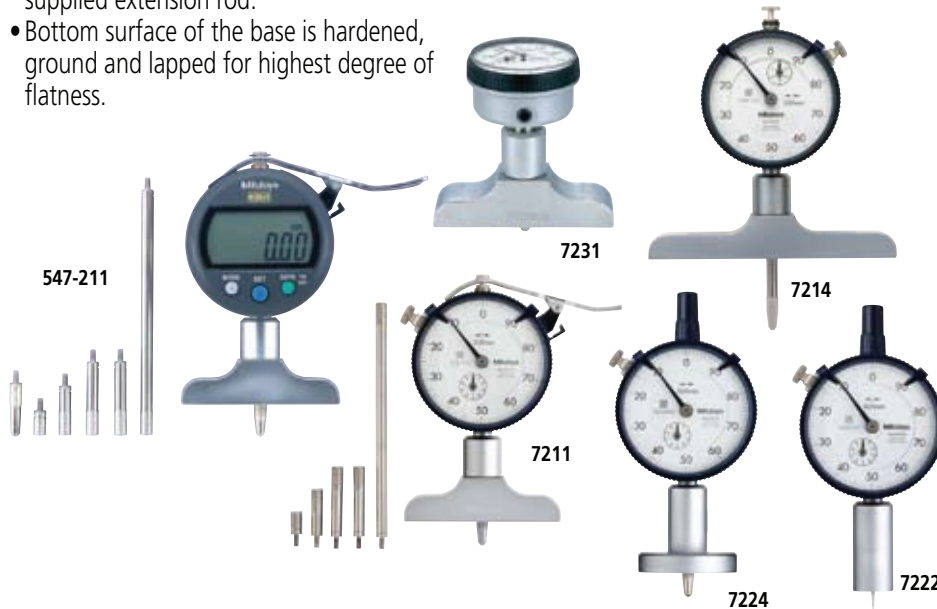


ABSOLUTE Digimatic/Dial Depth Gage

SERIES 547, 7

FEATURES

- ABSOLUTE Digimatic Depth Gage keeps track of the origin point (once set) for the entire life of the battery (Series 547).
- Wide probing range is available with the supplied extension rod.
- Bottom surface of the base is hardened, ground and lapped for highest degree of flatness.
- Designed with a back plunger type dial indicator for upward-facing reading. (**7231, 7237, 7238**)
- SPC data output (Series 547).



SPECIFICATIONS

Metric Digital Type					
Range	Order No.	Stroke	Accuracy	Extension rod	Base (W x T, flatness)
0 - 200mm	547-211	12.7mm	±20μm	5 pcs. (10, 20, 30, 30, 100mm)	63.5 x 16mm, 5μm
0 - 200mm	547-212	12.7mm	±20μm	5 pcs. (10, 20, 30, 30, 100mm)	101.6 x 16mm, 5μm
0 - 200mm	547-251	12.7mm	±5μm	5 pcs. (10, 20, 30, 30, 100mm)	63.5 x 16mm, 2μm
0 - 200mm	547-252	12.7mm	±5μm	5 pcs. (10, 20, 30, 30, 100mm)	101.6 x 16mm, 2μm

0.01mm graduation 0.001mm graduation

Inch/Metric Digital Type					
Range	Order No.	Stroke	Accuracy	Extension rod	Base (W x T, flatness)
0 - 8"	547-217S	.5"	±.001"	4 pcs. (.5", 1", 2", 4")	2.5" x .63", .0002"
0 - 8"	547-218S	.5"	±.001"	4 pcs. (.5", 1", 2", 4")	4" x .63", .0002"
0 - 8"	547-257S	.5"	±.0002"	4 pcs. (.5", 1", 2", 4")	2.5" x .63", .00008"
0 - 8"	547-258S	.5"	±.0002"	4 pcs. (.5", 1", 2", 4")	4" x .63", .00008"

.0005"/0.01mm graduation .00005"/0.001mm graduation

Metric Dial Type					
Range	Order No.	Stroke	Accuracy	Extension rod	Base (W x T, flatness)
0 - 10mm	7210*	10mm	±15μm	—	40 x 16mm, 5μm
0 - 200mm	7211	10mm	±15μm	5 pcs. (10, 20, 30, 30, 100mm)	63.5 x 16mm, 5μm
0 - 200mm	7212	10mm	±15μm	5 pcs. (10, 20, 30, 30, 100mm)	101.6 x 16mm, 5μm
0 - 210mm	7213	30mm	±30μm	3 pcs. (30, 60, 90mm)	63.5 x 16mm, 5μm
0 - 210mm	7214	30mm	±30μm	3 pcs. (30, 60, 90mm)	101.6 x 16mm, 5μm
0 - 200mm	7220	10mm	±15μm	5 pcs. (10, 20, 30, 30, 100mm)	100 x 18mm, 5μm
0 - 200mm	7221	10mm	±15μm	5 pcs. (10, 20, 30, 30, 100mm)	150 x 18mm, 5μm
0 - 10mm	7222*	10mm	±15μm	—	ø16mm, 5μm
0 - 10mm	7223	10mm	±15μm	—	ø25mm, 5μm
0 - 10mm	7224	10mm	±15μm	—	ø40mm, 5μm
0 - 200mm	7231	5mm	±15μm	5 pcs. (10, 20, 30, 30, 100mm)	63.5 x 16mm, 5μm

*with needle probe

Inch Dial Type					
Range	Order No.	Stroke	Accuracy	Extension rod	Base (W x T, flatness)
0 - 8"	7217S	1"	±.002"	3 pcs. (1", 2", 4")	2.5" x .63", .0002"
0 - 8"	7218S	1"	±.002"	3 pcs. (1", 2", 4")	4" x .63", .0002"
0 - 8"	7237	.2"	±.002"	4 pcs. (.5", 1", 2", 4")	2.5" x .63", .0002"
0 - 8"	7238	.2"	±.002"	4 pcs. (.5", 1", 2", 4")	4" x .63", .0002"

SPC

ABSOLUTE®
Absolute System Patented by MITUTOYO

(Refer to page VIII for details.)

Technical Data of Digimatic Model

Accuracy: Refer to the list of specifications.
(excluding quantizing error for digital models)

Resolution:
0.01mm type 0.01mm
0.001mm type 0.001mm/0.001mm
.0005"/0.01mm type .0005"/0.01mm
.00005"/0.001mm type .0005"/.0001"/.00005"/
0.01mm/0.001mm

Flatness of base face: 5μm or 2μm

Contact point: Carbide-tipped ball point or needle

Measuring force: 1.5N

Display: LCD

Scale type: ABSOLUTE electrostatic linear encoder

Max. response speed: Unlimited

Battery: SR44 (1 pc.), **938882**

Battery life: Approx. 7,000 hours under normal use

Technical Data of Dial Model

Accuracy: Refer to the list of specifications.

Dial reading: 0.01mm or .001"

Flatness of base face: 5μm or 2μm

Contact point: Carbide-tipped ball point
(needle point: **7210, 7222**)

Measuring force: 1.4N (2.5N: **7213, 7214, 7217S, 7218S**)

Functions of Digital Model

Origin-set/Preset, Zeroset, GO/±NG judgment, Counting direction switching, Power ON/OFF, Simplified calculation, Function lock, Data hold, Data output, inch/mm conversion (inch/mm models)

Alarm: Low voltage, Counting value composition error, Over-flow error, Tolerance limit setting error

Optional Accessories for Digital Model

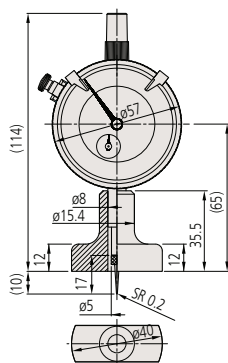
905338: SPC cable (1m)

905409: SPC cable (2m)

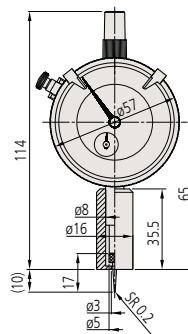
02AZD790F: SPC cable for U-WAVE (160mm)

DIMENSIONS

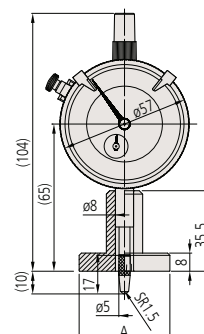
Unit: mm



7210

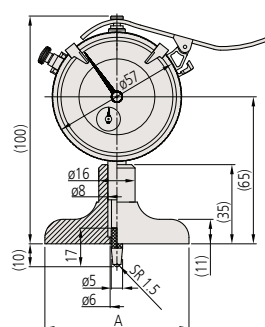


7222



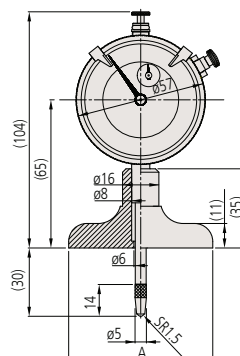
7223 A= $\phi 25$ mm

7224 A= $\phi 40$ mm



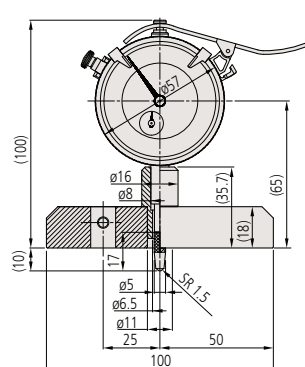
7211 A= 63.5mm

7212 A= 101.6mm

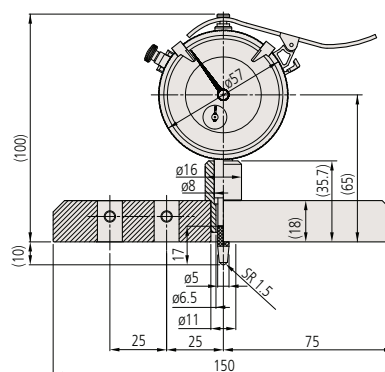


7213, 7217S A= 63.5mm

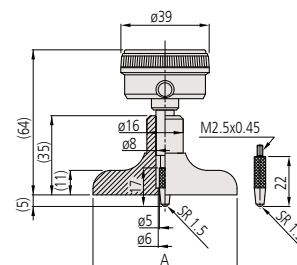
7214, 7218S A= 101.6mm



7220

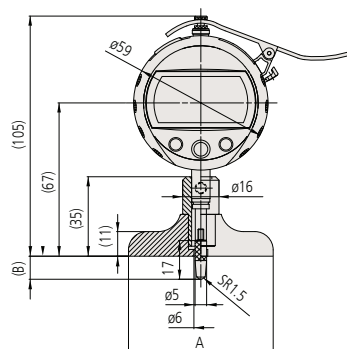


7221



7231, 7237 A= 63.5mm

7238 A= 101.6mm



547-211, 547-251, 547-217S, 547-257S A= 63.5mm

547-212, 547-252, 547-218S, 547-258S A= 101.6mm

(547-211, 547-212, 547-251, 547-252 B= 12mm)

(547-217S, 547-218S, 547-257S, 547-258S B= 12.9mm)

