

Articulated Arm

PPM203B • PPM100 Datasheet



PPM100.

Features & Benefits

- Three Axis Articulated Arm with HI-mass Base (PPM203B)
- Multi-turn Fine Adjustment Controls for All Three Axes (PPM203B)
- Fully Flexible "Gooseneck" Arm for Different Positions (Locks Securely in Place with Adjustment Control Knob) (PPM100)
- Fine Adjustment Knob on Probe Holder (PPM100)
 - Spring Compliance in Probe Holder Keeps Pressure at the Probe Point (PPM100)
- Heavy Base for Desktop Applications or C-clamp for Other (Rack) Applications, Both Included (PPM100)
- Adaptable to Most Tektronix Probe Types

Applications

Research, Electronic Design, Service and Manufacture of Small Geometry Circuitry

- Fine-pitched Controls to Access Circuitry Such as MCMs, Hybrids and Other IC Technology
- Multiple Test Points Access Allowing Hands Free Operation

Probing Fine Pitch Devices

Probing today's designs, with their delicate fine pitch devices, is safer and more convenient with Tektronix PPM articulating arms. The PPM series allows designers to guide standard handheld probes onto the small geometries of fine-pitch interconnects, SMD packages, MCMs (multi-chip-modules), hybrids and ICs.

The PPM articulating arms provide high accuracy and resolution with mechanically assisted probe positioning, helping designers meet the physical demands of probing the constantly shrinking geometry of devices.

PPM203B

The PPM203B has a three axis arm system. It is a general-purpose benchtop probing aid designed to be used when probing PC boards, hybrids and MCMs that employ fine-pitch devices and interconnects.

The PPM203B incorporates a weighted base that makes it well-suited to probing fine pitches in benchtop applications.

PPM100

The PPM100 is a low cost probing aid designed to provide quick and easy access to PC boards, hybrid circuitry and many other devices that require hands-free probing. The PPM100 has a flexible "gooseneck" arm allowing multiple adjustment positions. Once positioned the course adjust knobs lock the probe holder into position. A fine adjustment control at the arm head allows further pressure adjustment after the probe is initially positioned. The spring compliance incorporated into the probe head holder keeps pressure on the probe to circuit, maintaining a superior connection to the device under test.

The PPM100 includes both a weighted base for desktop applications and a C-clamp base for attaching to chassis or rack applications.

Characteristics

Number of Manipulator Axes

Product	Description
PPM203B	3 (X, Y, Z)
PPM100	3 (X, Y, Z) Flexible "gooseneck" arm provides nearly unlimited degrees of freedom

Probe Mounting

Product	Description
PPM203B	Accepts most Tektronix probes including SMD, 2.5 mm, 3.5 mm, 4 mm, 5 mm, TAP, TDP, Z-Active, and TriMode probes using metal probe adapter clamps
PPM100	Accepts most Tektronix probes using a flexible retention ring at the end of the probe holder



PPM203B.

Attachment Method to Work Surface

Product	Description
PPM203B	Manually positioned with weighted HI-mass base
PPM100	Manually positioned base with two mounting angles for additional test point access, or C-clamp for securing the adjustable arm to other fixtures, extrusions, chassis and bench tips

Manipulator Lead Screw Pitch

Product	Description
PPM203B	10 threads per inch
PPM100	N/A

Articulated Arm Reach

Product	Description
PPM203B	X, Y: 14 inches Theta: 180°
PPM100	X: 8 to 10 inches with base, 16 inches with clamp Y: 16 inches with base, 19 inches with clamp The PPM100 comes with 1 flexible arm with probe holder. You may order additional arms to affix to the post, which supports up to 3

Ordering Information

PPM203B

Articulated arm, 3 axis with HI-mass base.

Includes: Articulated arm; HI-mass base; 6 probe adapters to attach various probe styles.

PPM100

Flexible arm probe positioner, 3 axis with HI-mass base and C-clamp.

Includes: HI-mass base with interlocking feet; probe post; C-clamp with post; adjustable (flexible) arm with probe holder; flexible retention rings (8 each).

PPM203B Probe Adapter Compatibility Chart

Probe Adapter Part Number	Probe Type	Compatibility Probe List	
		Current	Legacy
Standard shipped adapters			
407-4365-00	SMD Passive Probes	—	P6561A, P6562A, P6563A
407-4366-00	2.5 mm Subminiature Probes	—	P6130, P6131, P6133, P6136, P6231
407-4367-00	3.5 mm Compact Probes	P5050B, P6139B, P6158	P5050, P6133 Option 25, P6134C, P6136 Option 25, P6137, P6138A, P6139A, P6339A
407-4368-00	SMD Active Probes	P6243, P6245, P6330, P7225, P7240, P7330	P6209, P6241, P6249, P7260
407-4369-00	5 mm Miniature Probes	P6101B, P6205, P75PDPM	P6103B, P6105A, P6106A, P6109B, P6204
407-4370-00	4 mm Active and Z ₀ Probes	P6150	P6207, P6217
407-4980-00	SMD Active, TAP, TDP Probes	P6243, P6245, P6330, P7225, P7240, P7330, P7350, TAP1500, TAP2500, TAP3500, TDP3500	P6209, P6241, P6249, P7260
407-4984-00	Active Differential Probes	P6246, P6247, P6248, P6251, TDP0500, TDP1000, TDP1500	P6250
Other Optional Adapters			
013-0339-01	Z-Active Differential Probes	P7340A, P7360A, P7380A, P7313	P7360, P7380
Precision differential probing module P75PDPM	TriMode Probes	P7504, P7506, P7508, P7513A, P7516, P7520	P7513

PPM100 Probe Adapter Compatibility Chart

Probe Type	Compatibility Probe List	
	Current	Legacy
SMD Passive Probes	—	P6561A, P6562A, P6563A
2.5 mm Subminiature Probes	—	P6130, P6131, P6133, P6136, P6231
3.5 mm Compact Probes	P5050B, P6139B, P6158	P5050, P6133 Option 25, P6134C, P6136 Option 25, P6137, P6138A, P6139A, P6339A
SMD Active Probes	P6243, P6245, P6330, P7225, P7240, P7330	P6209, P6241, P6249, P7260
5 mm Miniature Probes	P6101B, P6205, P75PDPM	P6103B, P6105A, P6106A, P6109B, P6204
4 mm Active and Z ₀ Probes	P6150	P6207, P6217
SMD Active, TAP, TDP Probes	P6243, P6245, P6330, P7225, P7240, P7330, P7350, TAP1500, TAP2500, TAP3500, TDP3500	P6209, P6241, P6249, P7260
Active Differential Probes	P6246, P6247, P6248, P6251, TDP0500, TDP1000, TDP1500	P6250
Z-Active Differential Probes (Requires adapter fixture: 013-0339-01)	P7340A, P7360A, P7380A, P7313	P7360, P7380
TriMode Probes (Requires precision differential probing module P75PDPM)	P7504, P7506, P7508, P7513A, P7516, P7520	P7513

Replaceable Parts List

Product	Description
384-1861-00	Post
020-2473-00	Flexible Arm with Probe Holder
343-1677-00	Clamp
016-1914-00	Flexible Retention Rings (set of 8)

CE Marking Not Applicable.

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For Further Information. Tektronix maintains a comprehensive, constantly expanding collection of application notes, technical briefs and other resources to help engineers working on the cutting edge of technology. Please visit www.tektronix.com



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