

# Mahr P2010 MB Series Inductive Probe Owner's Manual

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**Mahr P2010 MB Series Inductive Probe**



## FEATURES

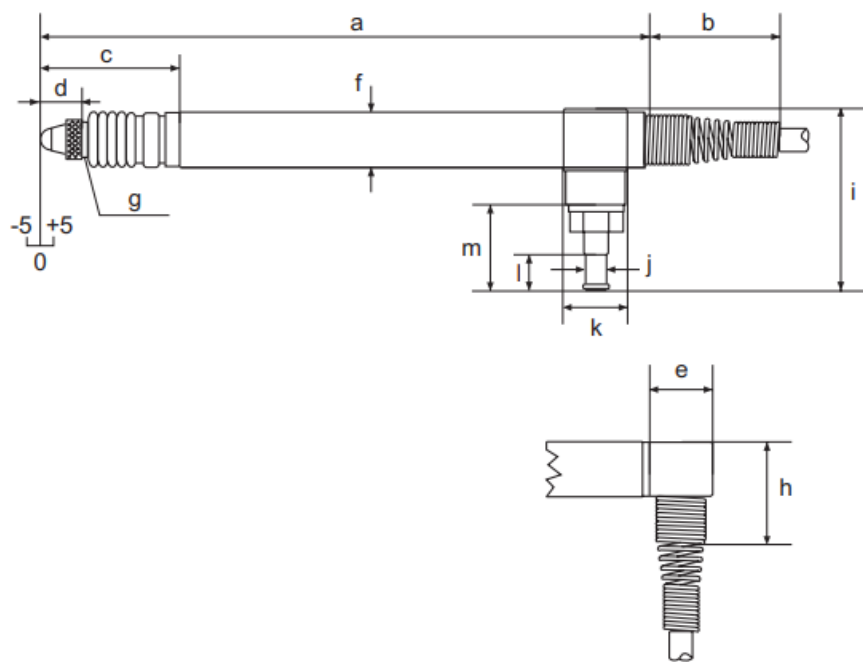
- Models with or without compressed air (pneumatic) lifter or vacuum retraction
- Measuring pin mounted in ball-bearing guide
- High linearity over the entire measuring range
- Excellent electromagnetic shielding (EMC)
- All probes can be easily converted from axial to radial by mounting a slip-on cap (included)
- Chemical resistance data: resistant to oil, gasoline, water and aliphatics. Moderately resistant to acids, bases, solvents and ozone
- Package contains: instruction manual, cap for radial cable output, spanner for preliminary stroke setting

## TECHNICAL DATA

Order no.	5324030	5324031	5324033	5324034	
Product type		P2010 MB	P2010 TB	P2010 UB	P2010 FB
Measuring range	mm	± 5			
Measuring range	inch	± .197“			
Distance to upper stop	mm...mm	+5.3			
Distance to upper stop	inch...inch	+ .20“			
Distance to lower stop	mm...mm	−5.3			
Distance to lower stop	inch...inch	−.20“			
Lifter / retraction		Compressed air retraction (max. 1 bar)			
Measuring force	N	Depending upon air pressure			
Sensitivity deviation	%	0.3			
Repeatability fw	µm	0.2			
Repeatability fw	inch	8 µ“			
Hysteresis fu	µm	1			
Hysteresis fu	inch	40 µ“			
Linearity deviation within +/-2.0 mm	µm	4			
Linearity deviation within +/- .079“	inch	160 µ“			
Linearity deviation within +/-5.0 mm	µm	20			
Linearity deviation within +/- .197“	inch	200 µ“			
IP protection category		IP 64			
Cable length	m	2.5			
Temperature coefficient	µm/°C	0.15			
Compatibility		Mahr VLDT	Tesa	Marposs	Federal

## Dimension

Order no. i	g	Dimension	f	j	k	l	m	a	b	c	d	e	f	h
		inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
5324030	M 2.5		3.6	9	8.3	12.5	125.7	28	34	6	9.2	8	14	26.5
5324031	M 2.5		3.6	9	8.3	12.5	125.7	28	34	6	9.2	8	14	26.5
5324033	M 2.5		3.6	9	8.3	12.5	125.7	28	34	6	9.2	8	14	26.5
5324034	4/48 U NF	0.375	3.6	9	8.3	12.5	125.7	28	34	6	9.2		14	26.5



## FAQ

- **Q: What is the maximum air pressure for retraction?**

A: The maximum air pressure for retraction is 1 bar.

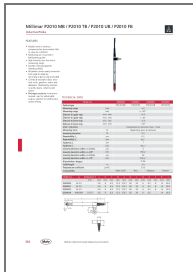
- **Q: What IP rating does the probe have?**

A: The probe has an IP rating of IP 64, indicating protection against dust and water splashes.

- **Q: How do I ensure accurate measurements with the probe?**

A: To ensure accurate measurements, make sure the probe is securely connected, maintain stable contact during measurement, and perform regular maintenance checks.

## Documents / Resources



**[Mahr P2010 MB Series Inductive Probe](#)** [pdf] Owner's Manual  
P2010 MB, P2010 TB, P2010 UB, P2010 FB, P2104 MA, P2104 TA, P2104 UA, P2104 FA,  
P2104 MB, P2104 TB, P2104 UB, P2104 FB, P2010 MB Series Inductive Probe, P2010 MB Se  
ries, Inductive Probe

References

- [User Manual](#)

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