

MEMS Pressure Test

Solutions for barometric, differential and high pressure test



Automotive



Mobility



IoT/IoV & Optoelectronics



Computing & Network



Industrial & Medical



Consumer

Productivity

- Pressure ranges from 100 mbar to 16 bar with fast pressure switching times
- Multisite from x8 up to x144 resulting in higher throughput
- Typical FPY of up to 99.8%

Flexibility

- Barometric, Differential, as well as TPMS capability on the same base platform
- Upgradable in the field to be able to test humidity and gas sensors
- Solutions for different packages across different loading media, tube, tray and strip test including wafer ring (blue tape)

- Temp accuracy down to +/- 1°C
- Parallelism up to 144 sites
- Package sizes from 0.8 mm up to 35 mm
- Full automotive MEMS temperature range
- Testing of 4 different sensor types in a single setup
- Gravity, Pick & Place, Strip & Carrier solutions available

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Specification Comparison Across all Cohu Pressure Platforms

Criteria	InBaro	Jaguar	MATRIX II	MATRIX II Differential	SO1000 / SO2000
					
Pressure range	100 mbar - 1500 mbar	100 mbar to 4 bar	x16 100 mbar - 16 bar x32 100 mbar - 10 bar	x32(A) 500 mbar - 1.5 bar	0.3 – 4 bar barometric 1 bar to 9 bar high pressure
Pressure accuracy	0.01% closed loop (with Mensor)	± 0.1% to ± 2% (with Mensor)	± 0.1% to ± 2% (with Mensor)	± 0.1% to ± 2% (with Mensor)	<± 2%
Pressure switching time	< 1 sec all pressure levels (Mensor)	< 1 sec all pressure levels (Mensor)	< 1 sec all pressure levels (Mensor)	< 1 sec all pressure levels (Mensor)	< 1 sec all pressure levels (Mensor)
No. of pre-set pressure levels	4 (up to 6) (Mensor)	4 (up to 6) (Mensor)	4 (up to 6) (Mensor)	4 (up to 6) (Mensor)	4 (up to 6) (Mensor)
Temp range	-40°C to 125°C	-45°C to 155°C	-45°C to 155°C	-45°C to 155°C	-50°C to 160°C
Temp accuracy	± 1°C	<± 4°C (-40°C to 150°C)	<± 4°C (-40°C to 135°C)	<± 4°C (-40°C to 135°C)	<± 3°C (-40°C to 150°C)
Max. parallelism	Up to 2400 signal lines (typical 144)	24	32 / 16	32 / 16	4
Input/ output media	Strip or Carrier	Strip	Jedec Tray	Jedec Tray	Tube / Bowl

Specifications subject to change without notice. For detailed performance specifications, please contact Cohu.