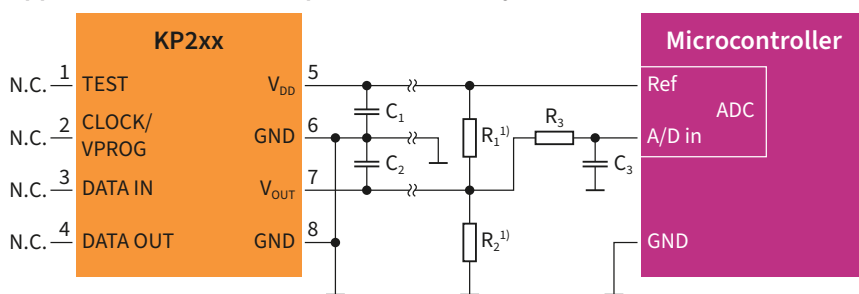


Infinion's integrated pressure sensor IC for manifold air pressure (MAP) measurement applications

In automotive applications, where high production volumes are common, there is significant interest in sensors that offer precision, affordability, and full integration. In this context, the KP22x MAP sensor family is an optimal solution for aspirated or turbocharged diesel and gasoline engine management systems.

Infinion provides a comprehensive portfolio of products for diesel engine management systems, ranging from micro-machined sensors to smart power ICs and microcontrollers. The KP22x pressure sensor, as an integrated solution for manifold pressure measurement, stands out as a benchmark for reliability, performance, and integration.

1) R_1 and R_2 only alternatively



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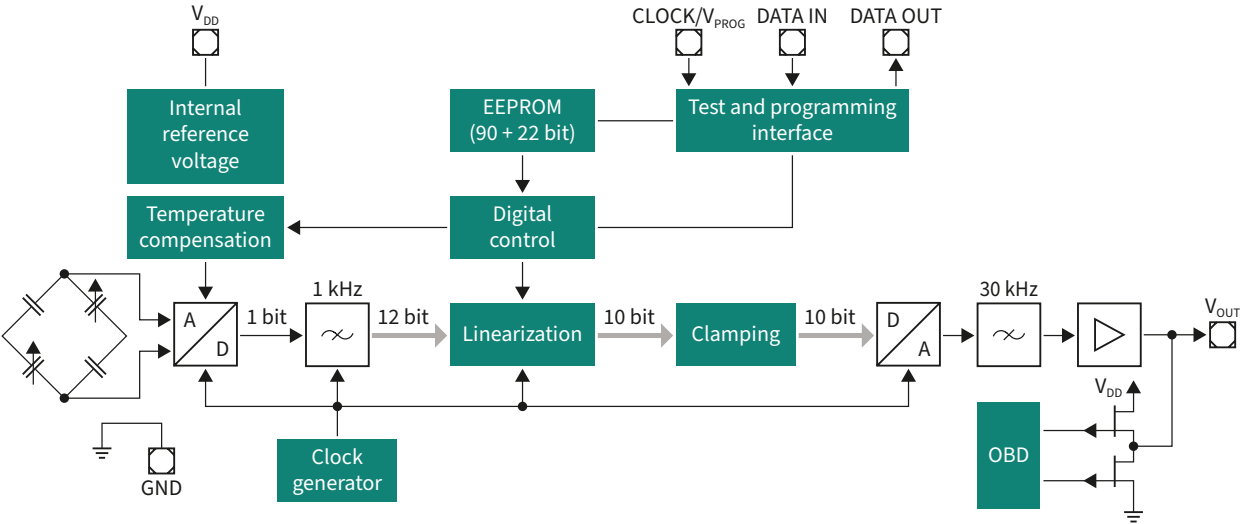


- Absolute air pressure measurement
- Excellent accuracy over a wide temperature range
- Ratiometric analog output
- Fully compensated output signal
- Pressure ranges from 15 to 400 kPa
- Temperature range (ambient) from -40°C to +140°C
- SMD package (PG-DSOF-8)
- Optional output clamping
- Complete product family: KP224, KP226, KP229

- Automotive applications
 - **MAP/TMAP**
(Manifold Air Pressure)
 - **EGR** (Exhaust Gas Recirculation)
 - **ORVR** (Onboard Refueling Vapor Recovery)
 - **NGV** (Natural Gas Vehicle)
 - **DPF** (Diesel Particulate Filter)
 - **GPF** (Gasoline Particulate Filter)
- Industrial control
- Consumer applications
- Medical applications



Highly integrated sensors – single chip



Product summary

Parameter	Range			Unit
	min.	typ.	max.	
Accuracy			1.0	% F.S.
Pressure range	10		400	kPa
Sensitivity	15.5		25	mV/kPa
Supply voltage	4.5	5.0	5.5	V
Output current			1.0	mA
Output voltage	0.1		4.85	V
Operating temperature	-40		+140	°C
Programmable transfer functions				
Transfer function pressure min.	10		80	kPa
Transfer function pressure max.	200		400	kPa
Transfer function voltage min.	0.1		0.5	V
Transfer function voltage max.	4.5		4.85	V

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