

# Solid State Pressure Sensor

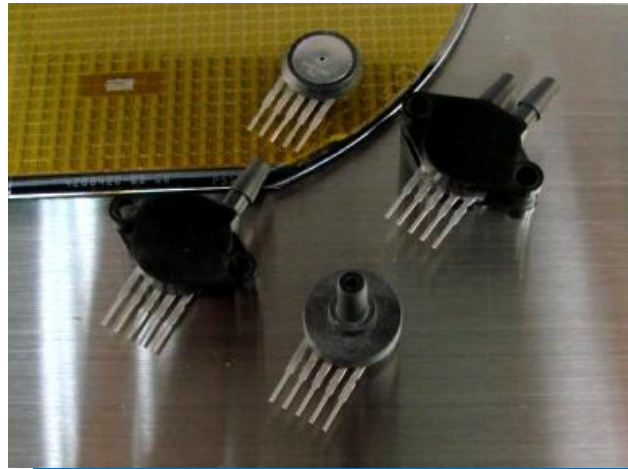
ANALOG  
OUTPUT



## MAP Series – Model 36A Manifold Absolute Pressure

### FEATURES

- Low Cost Sensor Element
- Calibrated Span and Offset
- Fully Temperature Compensated
- Manifold Absolute Pressure
- 1,2 and 3 bar Versions



### DESCRIPTION

The MAP 36A Series has been developed specifically for Manifold Pressure Measurement in automobile engines. These sensors are rugged, robust and fully temperature compensated. A variety of package options are available with or without ports for mounting flexibility.

The sensors are available in 1,2 and 3 bar versions catering to Normally Aspirated as well as turbo charged engines.

Over-voltage and reverse polarity protection of up to 30V can be provided upon request. The low voltage version operates from 2.7 to 3.3V while the regular version operates from 4.5 to 5.5V.

The MAP Series including Models 36D and 36A are available in pressure ranges from 0.3 psi to 100 psi. Custom calibrations to any linear output are available to suit the needs of all customers. Please contact the factory for details.

Sold in North America By:

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# Characteristics

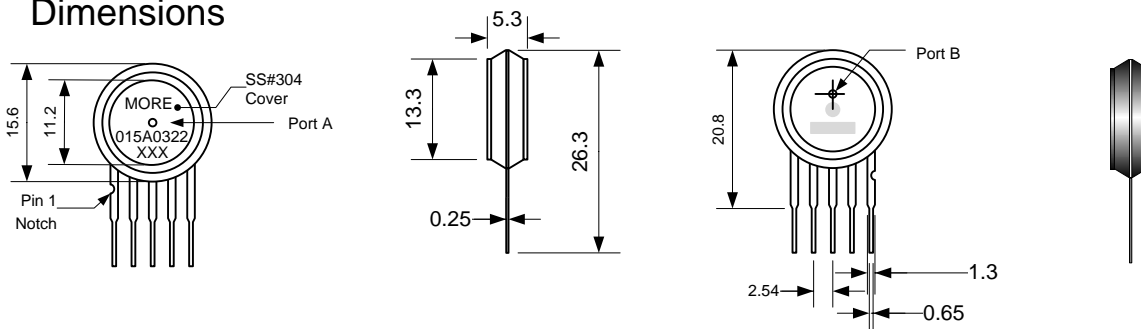
Unless otherwise specified, all parameters are measured at 60% RH, 25 °C and 5 Vdc excitation

Parameters	Min	Typ	Max	Unit
Supply Voltage <sup>NOTE1</sup>	2.7 to 3.3		4.5 to 5.5	Vdc
Supply Current			2.5	mA
Pressure Ranges <sup>NOTE4</sup>	102		310	kPa
Zero Output (Offset)	0.131	0.200	0.269	Vdc
Full Scale Output	4.531	4.600	4.669	Vdc
Output buffer current			2.2	mA
Accuracy <sup>NOTE2</sup>			±1.8	%FS
Response Time		1.0	2.0	ms
Over Pressure			2x	Rated Pressure
Temp - Compensated	0		+85	°C
Temp - Operating	-40		+125	°C
Temp - Storage	-40		+125	°C

### NOTES:

1. Specify desired operating voltage range when ordering. Output is ratiometric to supply voltage
2. Accuracy includes non-linearity, hysteresis, TCS and TCO inside the compensated temperature range, best fit straight line definition
3. Wetted materials contain PPA, Silicone gel (Port A) and PPA, RTV, glass and silicon (Port B)
4. See ordering guide for list of available pressure ranges

## Dimensions

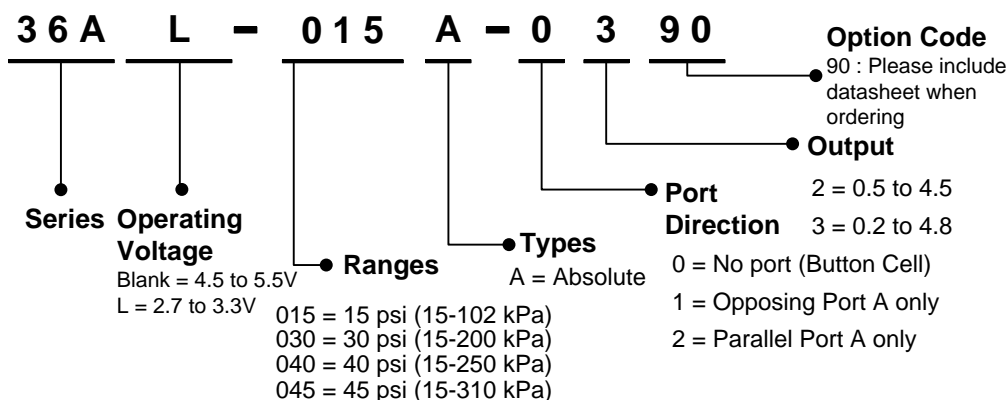


Delivery : 15 pcs per tray

1. Port B is used for positive differential
2. Port A is used for absolute
3. Port B is used for gage
4. All dimensions are in mm
5. Soldering leads max. 250 °C 5s

Pin #	Description
1	N.C.
2	Vdd.
3	Output
4	Vss
5	N.C.

## Ordering Information



NOTE:  
N.C pins should be left floating  
A 0.1uF capacitor must be connected between VDD and VSS

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