ka sensors
SENSE | ANALYZE | CONTROL

ASM Series
Miniature High Temperature Pressure Transducer - Up to 500 psi

The ASM Series of high performance pressure transducers have been designed for high temperature installations on motorsport and on-vehicle automotive applications. The ASM is ideal for high precision data acquisition or control systems. These transducers can also be installed directly onto vehicles or as part of a test stand or dyno.

Offering a high level of reliability and endurance the ASM is protected against the high vibration, shock and high temperatures found in motorsport. Continuous operation up to 300°F allows for installations in hot zones. The modular construction and programmable amplifier provide a fast delivery time for standard and custom configurations.

Pressure ranges are available between 0-15 and 0-500 psi in either Absolute, Gauge or Sealed Gauge reference. For higher ranges see our ASM High Range datasheet. Industry standard 3-wire electrical connections allow configuration with most common ECU's and data logging systems.

The ASM Series are race proven and can be found in many race formula around the world.

Technical Specifications

Pressure Reference	Absolute, Gauge and Sealed Gauge
Standard Pressure Ranges (psi)	15, 30, 75, 150, 200, 300, 500 *For ranges above 500 psi see ASM High Range datasheet*
Proof Pressure (overload)	300% of Range
Burst Pressure	>1000% of Range
Accuracy	±0.08% FS Combined Linearity & Hysteresis (CNLH)
Thermal Effects	TEB for Compensated Range <±0.25%
Output	0.5V to 4.5V (±0.5%)
Power Supply	5V (±0.5V) Ratiometric or 8-16 Vdc (<20mA)
Operating Temperature Range	-5°F to 300°F (-20°C to +150°C)
Compensated Temperature Range	32°F to 250°F (0°C to +125°C)
Bandwidth	0-1000Hz, 5000Hz (Selectable at time of Order)
Construction	Stainless Steel
Electrical Connection	20" 26AWG, 55spec Wire + DR25 Sleeve
Process Connection (Thread Size)	Please see Part Number Configurator - page 2
Protection Class	IP67
EMC Protection & Vibration	EN E50082-1 and Mil-Std-810C, Curve L, 20G
Weight	<1oz (Including Cable)
Options	Cable Spec, Connector Fitted, Thread Size & Labelling

PMC/KA Sensors adopts a continuous development program which sometimes necessitates specification changes without notice

Sensors For Motorsport

Features

- 300°F Continuous
- 0-15 to 0- 500 psi
- Amplified Output
- Miniature Size
- ±0.08% Accuracy

Applications

- Coolant
- Brakes
- Water
- Boost
- Fuel
- Oil

sales@pmcl.com
www.kasensors.com
Represented by:

Part Number Configurator

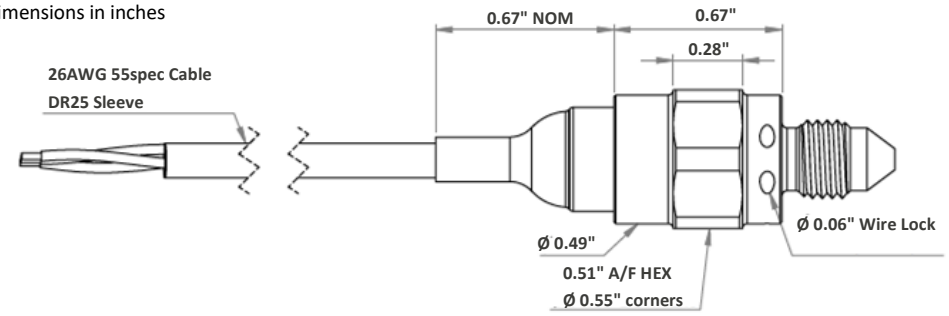
ASM - [ ] [ ] - [ ] [ ] [ ] - [ ] [ ] [ ] - [ ] - [ ]

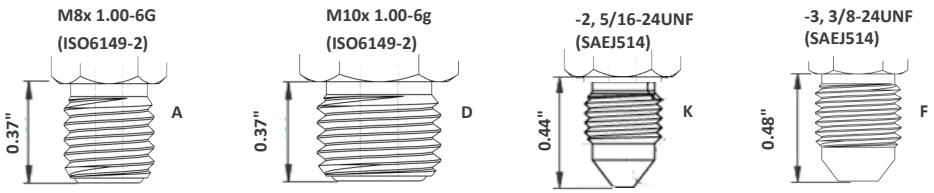
Pressure Reference	Absolute	A
	Gauge	G
	Sealed Gauge	S
Pressure Range	15 psi	P015
	30 psi	P030
	75 psi	P075
	150 psi	P150
	200 psi	P200
	300 psi	P300
	500 psi	P500
Supply Voltage	5V Ratiometric	4
	8-16Vdc	5
Accuracy (CNLH)	±0.08% FS Combined Linearity & Hysteresis	A
Accuracy (Thermal Shift)	TEB for Compensated Range <±0.25% FS	1
Electrical Connection	26AWG, 55spec Wire +DR25 Sleeve	A
Process Connection	3/8 Inch 24 UNF Dash 3 (SAE J514)	A
	M10 x 1 Male (ISO 6149-2)	D
	M6 x 1 Male	G
	5/16 Inch 24 UNF Dash 2 (SAE J514)	K
	M8 x 1 male	F
	M5 x 0.8 male	P
Bandwidth	0-1000Hz	1
	0-5000Hz	5
Cable Length	20 inches	A20
Special Code	None	000

The KA configuration tool is used to specify a standard KA Sensor, other options are available.

Mechanical Details

Dimensions in inches





Electrical Details

+Ve Supply	0V Supply	Signal
Red	Black	White

Sense
Analyze
Control

Sensors For:

- Temperature
- Acceleration
- Pressure
- Position
- Torque
- Speed
- Angle
- Force

Services For:

- Data Logging
- Telemetry
- Controls
- Wiring

Contact Us

KA Sensors
Division of
PMC Engineering LLC
11 Old Sugar Hollow Rd
Danbury, CT 06810
USA
Tel: 203-792-8686
Fax: 203-743-2051

sales@pmcl.com
www.kasensors.com