ka sensors
SENSE | ANALYZE | CONTROL

ASUH Series
Miniature Pressure Transducer

The ASUH Series of High Performance Sub-Miniature Pressure Transducers have been designed for demanding installations in motorsport and on-vehicle automotive applications where space is extremely limited.

The new design of the ASUH utilizes miniaturized hybrid components, allowing savings in both size and weight. This transducer has enhanced performance at elevated temperatures and is optimized for extreme installations such as on-engine or transmissions. The modular construction and programmable amplifier provide a fast delivery time for standard and custom configurations.

Pressure ranges are available between 0-150 and 0-6000 psi in either Absolute, Gauge or Sealed Gauge reference.

Industry standard 3-wire electrical connections allow configuration with most common ECU's and data logging systems.

For OEM applications we have many options available to customize these transducers.

Technical Specifications

Pressure Reference	Absolute, Gauge and Sealed Gauge
Standard Pressure Ranges (psi)	150, 200, 300, 500, 750, 1500, 3000 and 6000
Proof Pressure (overload)	200% of range
Burst Pressure	>500% of range
Accuracy	±0.25% FS Combined Linearity & Hysteresis (CNLH)
Thermal Effects	Zero ±0.005% FS/°F (Sensitivity ±0.005% of reading /°F)
Output	0.5V to 4.5V (±0.5%)
Power Supply	5V (±0.5V) Ratiometric
Operating Temperature Range	-40°F to 300°F (-40°C to +150°C)
Compensated Temperature Range	32°F to 250°F (0°C to +125°C)
Bandwidth	0-1000 Hz, 5000 Hz (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 50082-1 and Mil-Std-810C, Curve L, 20G
Weight	0.7oz (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

- Sub-Miniature Size
- 150 to 6000 psi Range
- 0-5000 Hz Bandwidth
- ±0.25% Accuracy
- Rugged Construction

Applications

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

sales@pmc1.com
www.kasensors.com
Represented by:

Part Number Configurator

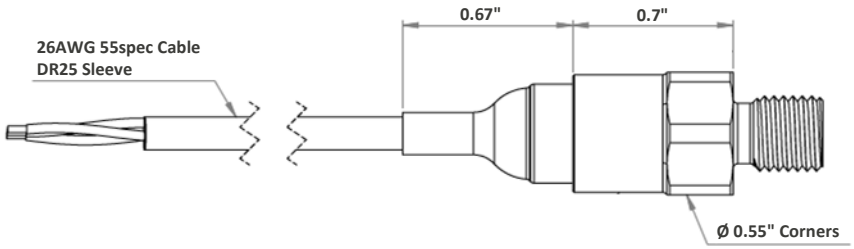
ASUH - ☐☐ - ☐☐☐ - ☐☐☐ - ☐ - ☐

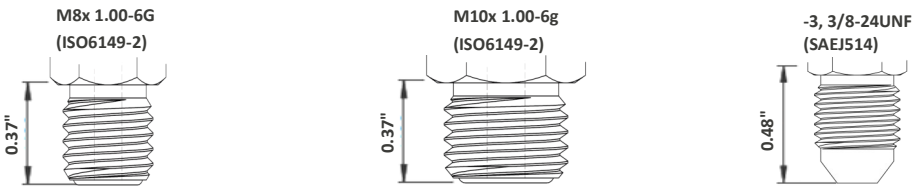
Pressure Reference	Absolute	A
	Gauge	G
	Sealed Gauge	S
Pressure Range	150 psi	P150
	200 psi	P200
	300 psi	P300
	500 psi	P500
	750 psi	P750
	1500 psi	P1K5
	3000 psi	P3K0
	6000 psi	P6K0
Supply Voltage	5V Ratiometric	4
	8-16Vdc	5
Accuracy (CNLH)	±0.25% FS Combined Linearity & Hysteresis	A
Accuracy (Thermal Shift)	Zero ±0.005% FS/°F (Sensitivity ±0.005% of Reading /°F)	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
	M8 x 1 Male	F
	5/16 Inch 24 UNF - No Cone (SAE J514)	I
	5/16 Inch 24 UNF Dash 2 (SAE J514)	K
	M5 x 0.8	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@pmc1.com
www.kasensors.com