



## ASH SERIES HIGH PERFORMANCE PRESSURE TRANSDUCER UP TO 6000 PSI

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

The ASH Series offer a high level of reliability and endurance and are protected against the high vibration, shock and high temperatures found in motorsport. Continuous operation up to 300°F allows for installation in hot zones.

The modular construction and programmable amplifier provide a fast delivery for standard and custom configurations. Pressure ranges are available above 150 psi and up to 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

<b>Pressure Reference</b>	Absolute, Gauge and Sealed Gauge
<b>Standard Pressure Ranges (psi)</b>	300, 500, 725, 1500, 1800, 3000 and 6000 <i>Any range &gt;150 psi can be specified</i> <i>For ranges below 150 see ASH Low Range datasheet</i>
<b>Proof Pressure (Overload)</b>	150% of Range
<b>Burst Pressure</b>	>300% of Range
<b>Accuracy</b>	±0.2% FS Combined Linearity & Hysteresis (CNLH)
<b>Thermal Accuracy</b>	Zero ±0.006% FS/°F (Sensitivity ±0.006% of Reading /°F)
<b>Output</b>	0.5V to 4.5V (<±0.25% of span)
<b>Power Supply</b>	5V (±0.5V) Ratiometric or 8-16Vdc
<b>Operating Temperature Range</b>	-40°F to 300°F (-40°C to +150°C)
<b>Compensated Temperature Range</b>	32°F to 250°F (0°C to +125°C)
<b>Bandwidth</b>	0-1000Hz, 0-2000Hz, 0-5000Hz (Selectable at time of order)
<b>Construction</b>	Stainless Steel, Viton
<b>Electrical Connection</b>	20" 26AWG, 55spec Wire +DR25 Sleeve
<b>Process Connection (Thread Size)</b>	Please see Part Number Configurator - page 2
<b>Protection Class</b>	IP67
<b>EMC Protection &amp; Vibration</b>	EN E50082-1 and up to 5KHz Sine at 100g
<b>Weight</b>	2oz (Including Cable)
<b>Options</b>	Cable Spec, Connector Fitted, Thread Size & Labelling

kasensors adopts a continuous development program which sometimes necessitates specification changes without notice

## Sensors For Motorsport

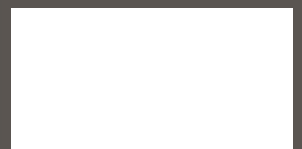
### Features

- Vibration: 100g 5kHz
- 0.2% Accuracy
- >150 to 6000psi Range
- 300°F Continuous
- Amplified Output

### Applications

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

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Represented by:



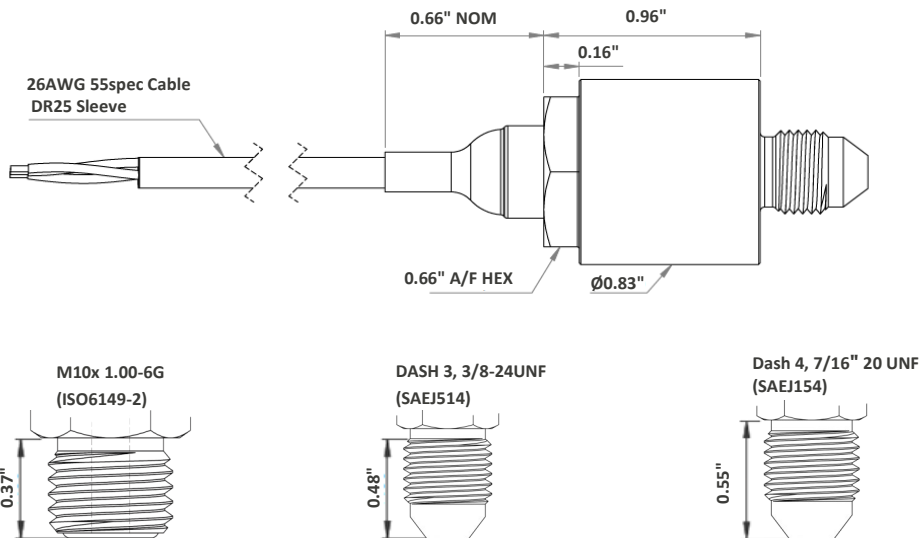
# PART NUMBER CONFIGURATOR

	ASH									
<b>Pressure Reference</b>	Absolute	A								
	Gauge	G								
	Sealed Gauge	S								
<b>Pressure Range</b>	300 psi	P300								
	500 psi	P500								
	750 psi	P750								
	1500 psi	P1K5								
	1800 psi	P1K8								
	3000 psi	P3K0								
	6000 psi	P6K0								
<b>Supply Voltage</b>	5V Ratiometric		4							
	8-16Vdc		5							
<b>Accuracy (CNLH)</b>	±0.2% FS Combined Linearity & Hysteresis			A						
<b>Accuracy (Thermal Shift)</b>	Zero ±0.006% FS/°F (Sensitivity ±0.006% of Reading /°F)				1					
<b>Electrical Connection</b>	26AWG, 55spec Wire + DR25 Sleeve					A				
<b>Process Connection</b>	3/8 Inch 24 UNF Dash 3 (SAE J514)						A			
	1/8 Inch NPT Male (ANSI B1.20.1)						B			
	M10 x 1 Male (ISO 6149-2)						D			
	M8 x 1 Male (ISO 6149-2)						F			
	5/16 Inch 24 UNF - No Cone (SAE J514)						I			
	3/8 Inch 24 UNF - No Cone (SAE J1926-2)						J			
	5/16 Inch 24 UNF Dash 2 (SAE J514)						K			
	7/16 Inch 20 UNF Dash 4 (SAE J514)						L			
	7/16 Inch 20 UNF - No Cone (SAE J1926-2)						T			
<b>Bandwidth</b>	0 - 1000Hz							1		
	0 - 2000Hz							2		
	0 - 5000Hz							5		
<b>O-Ring Material (Internal)</b>	None								0	
<b>Cable Length</b>	20 inches									A20
<b>Special Codes</b>	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

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