



ASL SERIES STANDARD PRESSURE TRANSDUCER

The ASL series of standard pressure transducers have been designed for the detection of fluid and air pressures in demanding motorsport and automotive applications.

These 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.

They offer a high level of reliability and endurance, they are protected against the high vibration, shock and high temperatures found in motorsport.

The modular construction and programmable amplifier provide a fast delivery time for standard and custom configurations. Pressure ranges are available between 1 to 400 bar in either sealed gauge, gauge or absolute reference.

Industry standard 3-wire electrical connections allow configuration with most common ECU's and data logging systems. The ASL series are race proven in many formula around the world and offer a reliable and cost effective solution for professional engineers.

**Sense
Measure
Control**

Features

- *Compact Design*
- *1 to 400 Bar Range*
- *Amplified Output*
- *Rugged Construction*
- *±0.5% Accuracy*

TECHNICAL SPECIFICATIONS

Pressure Datum	Sealed gauge, absolute and gauge
Standard Pressure Ranges (Bar)	1, 5, 10, 20, 35, 50, 100, 200 and 400
Safe Over Range	150% of range
Burst Pressure	>300% of range
Accuracy	±0.5% FS combined linearity & hysteresis (CNLH)
Thermal Effects	Zero ±0.04% FS/°C (Sensitivity ±0.04% of reading /°C)
Output	0.5V to 4.5V
Supply	5V (±0.5V) ratiometric or 8-16Vdc
Operating Temperature Range	-20°C to +135°C
Compensated Temperature Range	0°C to +125°C
Construction	Stainless steel, alumina, Viton & EPDM
Electrical Connection	50cm, 26AWG FEP insulated screened cable
Process Connection (Thread Size)	Various - see KAfigurator Part Number Builder - Page 2
Protection Class	IP67
EMC Protection & Vibration	EN 50082-1 and Mil-Std-810C, curve L, 20G
Weight	34g
Options	Cable assembly, thread size and labelling

Applications

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

		ASL	S	1002	5	A	2	A	A	V	050	000
Pressure Datum	Absolute	A										
	Gauge	G										
	Sealed Gauge	S										
Pressure Range	1 bar	1000										
	5 bar	5000										
	10 bar	1002										
	20 bar	2002										
	35 bar	3502										
	50 bar	5002										
	100 bar	1003										
	200 bar	2003										
400 bar	4003											
Supply Voltage	5V ratiometric		4									
	8-16V		5									
Accuracy (CNLH)	+/-0.5% of Full Scale			A								
Accuracy (Thermal Zero Shift)	<+/-0.04%/Span/C (<+/-0.02%/Span/F)				2							
Electrical Connection	26 AWG, FEP insulated cable					A						
Process Connection	3/8 inch 24 UNF Dash 3							A				
	1/8 inch NPT Male							B				
	G 1/4 inch Male							C				
	M8 x 1 Male							F				
	M10 x 1 Male							D				
O-Ring Material	Viton								V			
	EPDM								E			
Cable Length	50 cm									050		
Special Codes	None										000	

Sense Measure Control

Sensors for

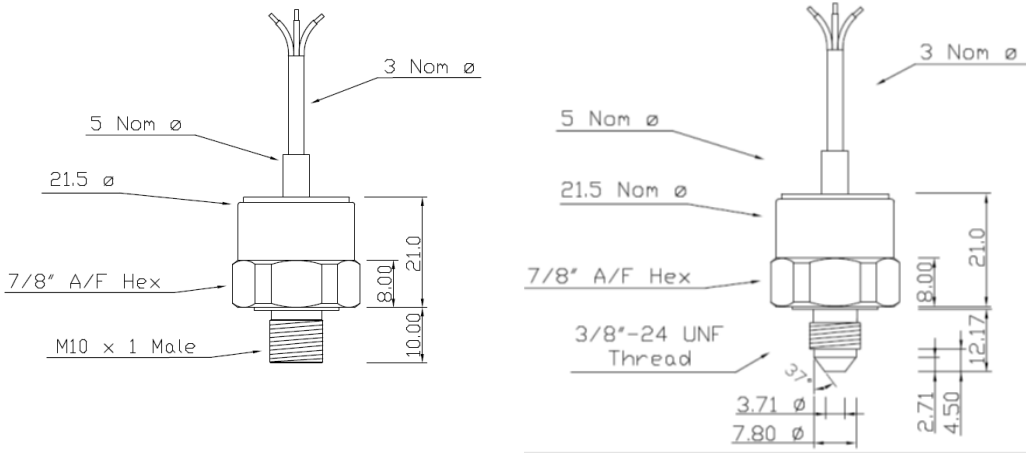
- Temperature
- Acceleration
- Pressure
- Position
- Torque
- Speed
- Angle
- Force

Services for

- Data Logging
- Telemetry
- Controls
- Wiring
- Design
- Engineering led
- Confidential
- Experienced
- Responsive
- Dynamic
- Friendly

MECHANICAL DETAILS

Dimensions in mm



CONNECTION DETAILS

+Ve Supply	0V Supply	Signal
Red	Blue	Yellow