#### **General Specifications and Datasheet**

EST341 Ceramic Capacitive Pressure Transmitter | GSD-EV03.1

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# **EST341 Ceramic Capacitive**

## Pressure Transducer for Automotive/EV

#### **Product Introduction**

EST341 is a type of pressure transducer based on the ceramic capacitive sensing principle. EST341 is highly robust and capable of withstanding harsh environmental conditions, such as extreme temperatures, mechanical vibrations, and exposure to chemicals like oils and fuels

EST341 is particularly suitable for sensing pressure in engine management systems, transmission control, and tire pressure monitoring systems, primarily due to its high precision and stability over time. Furthermore, its excellent thermal stability ensures consistent performance across a broad range of temperatures.

The low hysteresis of EST341 ensures that its readings remain stable despite being subjected to varying environmental conditions and mechanical stress.

EST341 is manufactured in compact sizes without compromising sensitivity or reliability. This characteristic allows for greater flexibility in design and integration within confined spaces.







#### **Highlight Features**

▶ Pressure Range: 0bar~5bar ··· 100bar

> Electrical Connection: Packard

**Accuracy:**  $\pm 0.5\%$ /FS @25%- $\pm 1.5\%$ /FS;

➤ Output: Rationmetric 0.5-4.5V➤ Response Time: ≤3ms (10%-90%)

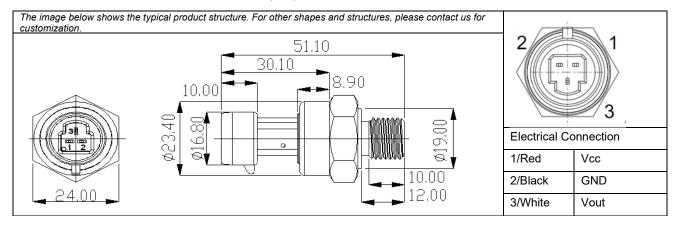
▶ **Medium:** Compatible with SS304/316/Ceramic

#### **Electrical Connections and Dimensional Drawings**

Environment & Working Conditions										
Range	0∼0.5MPa···10MPa	3.5mA								
Overload Pressure	200%FS	Electrical Connection	Packard							
Burst Pressure	500%FS	Process Connection	G1/2 G1/4 M20x1.5 M14x1.5							
Pressure Type	Gauge/Sealed Gauge	Ingress Protection	IP65-IP67							
Integrated Accuracy	±0.5%-±1.5%	MOC	SS304(housing); Ceramic (Sensing)							
Long term Stability	±0.3%/FS/Y	Vibration	10gRMS,(20∼2000)Hz							
Working Temperature	-40∼125℃	Shock	100g,11ms							
Storage Temperature	-40∼150℃	Insulation	>100MΩ @250VDC							
Power Supply	5±0.5V (5.5-36V)	Response Time	<1ms (@ 90%FS)							
Output Signal	0-5VDC(0.5-4.5VD)									



### Structure Size Outline Dimension (mm)



### **Ordering Procedure**

EST341	Ceran	Ceramic Capacitive Pressure Transmitter										
	Cod	Pressure Type										
	G	Gauge	Gauge Pressure									
	S	Sealed	Sealed Gauge									
		Code	Power Supply									
		P1	5VDC									
		P2	5-36VDC									
			Со	Cod Output Signal								
			C 0-5V									
			٧	V 0.5-4.5V								
				Code			e Electrical Connections					
					L1 Packard wi		ithout cab	le				
					L2	Packard with 1-3 met			eter cable			
						C	ode	Process	Connection Connection			
			01		G1/2							
						12	2	M14x1.5				
								Code	Options			
								-	-			
EST341	EST341 G P1 V L1 01 Fa											