

## Data Sheet

# KM41, KM45 OEM Pressure Transducers

### FEATURES

- Broad temperature capability
- All-welded stainless steel pressure construction
- Stainless steel housing
- High EMI/RFI rating
- Ranges vacuum through 20,000 psi
- IP67 Ingress rating (IP69K available)
- Wide selection of electrical and process connections available
- Customizable configurations

### APPLICATIONS

- Off-Road equipment
- Construction machinery
- Compressor control
- Pump monitoring
- Agricultural/irrigation equipment
- Railroad/Transportation
- Engine monitoring
- Process automation & controls
- Hydraulic and pneumatic sensing



KM41, KM45 OEM  
Pressure Transducer



### SPECIFICATIONS

**Accuracy:** ±0.5% of span, ±0.25% of span (OPT.)  
Terminal Point Including Zero & Span Offset) at reference temperature 21 °C (72 °F)  
Total Error Band: Includes combined effects of temperature with Terminal Point, including zero & span offset errors  
±1.5% of span: From -4 °F to 185 °F (-20 °C to 85 °C)  
±2.0% of span: From -40 °F to -4 °F (-40 °C to -20 °C)  
±2.0% of span: From 185 °F to 221 °F (85 °C to 105 °C)

**Stability:** <±0.25% of span per year

**Durability:** >10,000,000 cycles

**Humidity:** 0 to 100% R.H., no effect

### WETTED COMPONENTS

Model	Sensor	Process Connection Materials
KM41	17-4 PH® SS	304 SS
KM45	316L SS	316L SS

### OUTPUT SIGNALS AVAILABLE

Voltage Output	Excitation	Supply Current
0-5 Vdc, 3 wire	9-36 Vdc	5 mA
0-10 Vdc, 3 wire	14-36 Vdc	5 mA
1-5 Vdc, 3 wire	9-36 Vdc	4 mA
1-6 Vdc, 3 wire	9-36 Vdc	4 mA
0.5-4.5 Vdc 3 wire	9-36 Vdc	4 mA
Ratiometric Output		
0.5-4.5 Vdc, 3 wire	5 ±0.5 Vdc	3.5 mA
Current Output		
4-20 mA, 2 wire	9-36 Vdc	

**Response Time:** < 1 msec

### MIN/MAX TEMPERATURE LIMITS

Compensated	Process	Operating	Storage
-40 °F to 221 °F (-40 °C to 105 °C)	-40 °F to 257 °F (-40 °C to 125 °C)	-40 °F to 257 °F (-40 °C to 125 °C)	-40 °F to 257 °F (-40 °C to 125 °C)

### DIMENSIONS

For reference only, consult Ashcroft for specific dimensional drawings

