

## Data Sheet

# KM15 Pressure Transducer

### FEATURES

- Combined high performance ASIC with proven polysilicon thin film sensory technology
- Provides a highly accurate, stable and durable transducer
- Provides superior media compatibility and over pressure capability
- Digital compensation for calibration provides an extremely linear and repeatable instrument over a wide range of temperatures

### TYPICAL USES

- Off road equipment
- Construction machinery
- Compressor control
- Pump monitoring
- Agricultural implements
- Diagnostic kits
- Engine monitoring
- Process automation & control
- Hydraulic & pneumatic sensing
- Machine tool

### PERFORMANCE SPECIFICATIONS

Reference Temperature:	73 °F ± 2 ° (23 °C)
Accuracy:	±0.5% Span, 100 psig of span and above ±1.0% Span, 75 psig of span and below
Stability:	±0.25% of span/year
Interchangeability:	<0.5% of span
Durability:	10 million cycles (10 to 100% FS)
Approvals:	CE/UKCA, RoHS, IP67

### ENVIRONMENTAL SPECIFICATIONS

Temperature Limits:	Compensated: -25 °F to 250 °F (-30 °C to 120 °C) Operating: -40 °F to 250 °F (-40 °C to 120 °C) Storage: -40 °F to 250 °F (-40 °C to 120 °C)
Humidity:	0 to 100% R.H., no effect
Terminal Coefficients:	Zero: ±0.0055%/ °F (±0.01%/ °C) -25 °F to +250 °F (-30 °C to 120 °C) Span: ±0.0055%/ °F (±0.01%/ °C)

### FUNCTIONAL SPECIFICATIONS

Pressure Range:	Vacuum to 7,500 psi
Vibration:	Random to 1 KHz, 20 g's
Shock:	50 g's, 11 msec
Drop Test:	Withstands 1 meter on concrete
Response Time:	< 1 msec
Position Effect:	< ±0.01% span



KM15  
Transducer



### KEY BENEFITS

- Broad selection of pressure ranges, pressure connections and electrical terminations
- Cost effective construction
- Compact, rugged construction

### FUNCTIONAL SPECIFICATIONS

Overpressure (F.S):	Proof	Burst
750 psi and below	2x Range	10x Range
1,500 psi	2x Range	5x Range
3,000 psi	2x Range	5x Range
5,000 psi	1.5x Range	5x Range
7,500 psi	1.2x Range	5x Range

### ELECTRICAL SPECIFICATIONS

Reverse Polarity Protection:	Yes
Insulation Resistance:	100 MΩ min. @50 Vdc (Circuit to Case)
Insulation Breakdown Voltage:	500 Vac
Warm-up Time:	< 25 msec

### OUTPUT SIGNALS AVAILABLE

Voltage Output	Excitation	Supply Current
0.5-4.5 Vdc	5 Vdc ± .5 Vdc	10 mA typical
Ratiometric Output		
1-5 Vdc	8-32 Vdc	10 mA typical

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### PHYSICAL SPECIFICATIONS

Electrical Termination:	Metri-Pack® 150 Series, Shielded Cable, Flying Leads
Weight:	Connector: Approx. 2 oz. (60 g) Cable: Approx. 3.88 oz. (110 g)

### WETTED COMPONENTS

Process Connection	Diaphragm	Joints
304 SS	17-4 PH® SS	Welded

### OPTIONAL FEATURES

Oxygen Cleaning:	Gaseous
Electrical Termination:	See ordering code
Process Connection Size:	See ordering code
Consult factory for:	Pressure range options, throttle screw options, custom mating harness, and approval descriptions

### KM15 RANGE TABLE

	Range	Code
Vacuum	vac/0 psi*	0#&vac
	vac/15 psi*	15#&vac
	vac/30 psi*	30#&vac
	vac/50 psi*	50#&vac
	vac/75 psi*	75#&vac
	vac/100 psi*	100#&vac
	vac/150 psi*	150#&vac
	vac/200 psi*	200#&vac
	vac/300 psi*	300#&vac
	Gauge	0/15 psi*
0/30 psi*		30#
0/50 psi*		50#
0/75 psi*		75#
0/100 psi*		100#
0/200 psi*		200#
0/300 psi*		300#
0/500 psi		500#
0/750 psi		750#
0/1,000 psi		1,000#
0/1,500 psi		1,500#
0/2,000 psi		2,000#
0/3,000 psi		3,000#
0/5,000 psi		5,000#
0/7,500 psi		7,500#

\*Ranges in psi with vented cable or Metri-Pack® termination only.

### ORDERING CODE

Example:

**KM15 5 M01 RM G2 100# XTS**

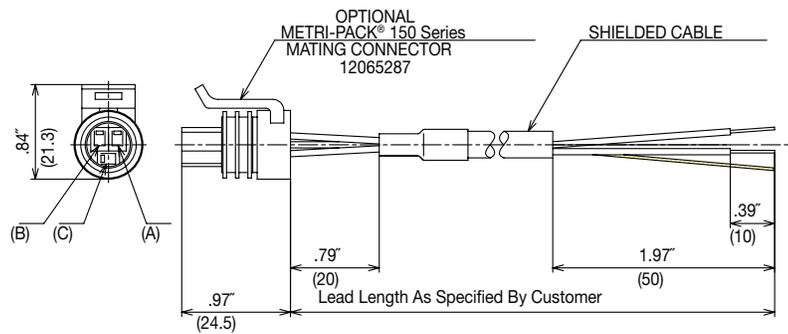
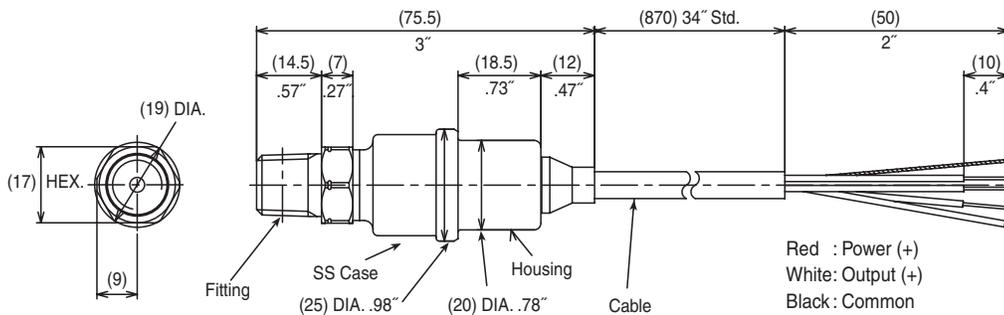
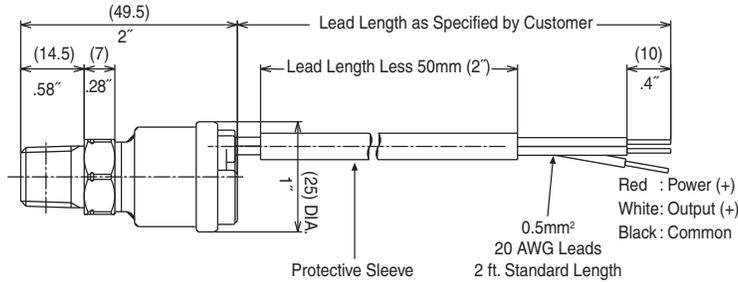
<b>Model</b>	KM15 - OEM Pressure Transducer	KM15						
<b>Accuracy</b>	5 - 0.50% (100 psi & above) 7 - 1.0% (75 psi & below)	5						
<b>Pressure Connection Size</b>	M01 - 1/8 NPT-M M02 - 1/4 NPT-M M38 - 3/8-24 UNF-2A MEK - 1/16-2- UNF-2B M10 - M10 x 1 M14 - M14 x 1.5 MR3 - R 3/8 MR2 - R 1/4 MG3 - G 3/8 MG2 - G 1/4		M01					
<b>Output Signal</b>	15 - 1-5 Vdc RM - Ratiometric 0.5-4.5 Vdc				RM			
<b>Electrical Termination</b>	<b>Metri-Pack®</b> GN - no mating connection G2 - mating connection 3 cable G1 - mating connection with customer specified length					G2		
<b>Shielded Cable</b>	F2 - 36" shielded cable, PVS sheath P1 - Other length P9 - Custom cable							
<b>Flying Lead</b>	12 - 12" length 24 - 24" length 36 - 36" length							
<b>Pressure Ranges (see range table on page 2)</b>	100# - 0/100 psi						100#	
<b>Option (if including an option(s) must include an "X")</b>	XTS - Throttle Screws 6B - Clean for oxygen service Consult factory for additional options							X__ TS

**Data Sheet**

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**DIMENSIONS**

Dimensions in [ ] are millimeters.



**PINS**  
(B) -- Red --- Power(+)

**CABLE LENGTHS**  
3 ft. standard

