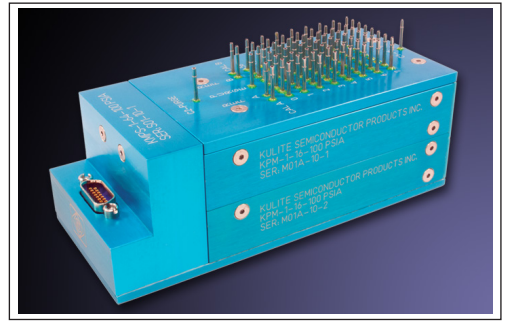


kulite®
PRESSURE SCANNER
KMPS-1-64-XX-Y SERIES

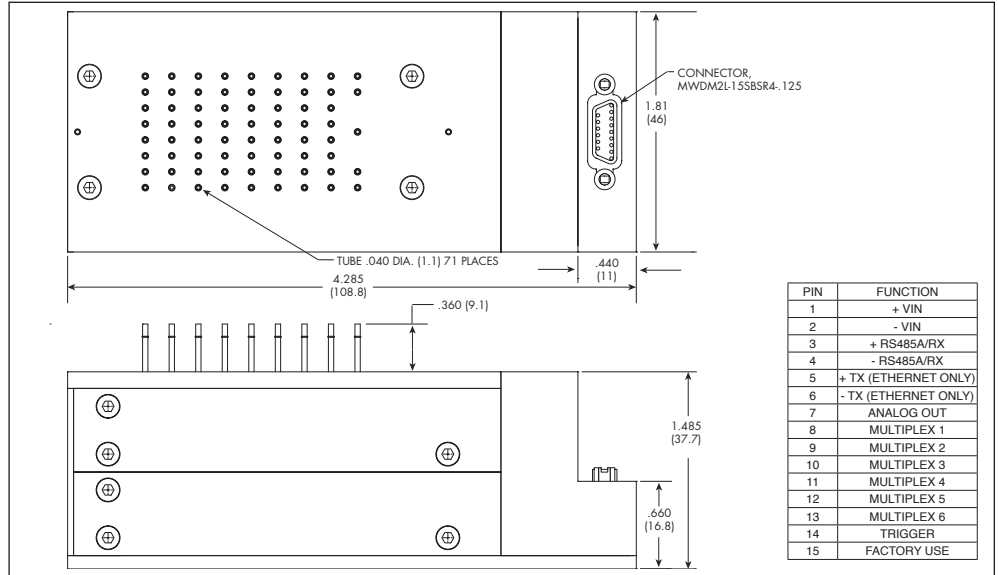
- High Accuracy Digital Compensation
- Multiplexed Analog Output
- High Speed Digital Output (RS-485 or Ethernet)
- No Heating or Cooling Needed
- Wide Temperature Range
-65°F to +255°F (-55°C to +125°C)
- Silicon on Silicon Integrated Sensor **VIS®**
- Auto Zero
- Integral Purge
- IEEE-1588 Timing
- Patented Design



The KMPS-1-64 is a 64 position pressure scanner with both high accuracy digital and analog outputs. This allows it to be used with both legacy analog systems and new digital systems. The RS-485 digital output allows multiple scanners to be read over a single data bus. The ethernet digital output allows integration into standard networks using TCP or UDP. The KMPS also features purge and auto-zero capabilities.

The KMPS-1-64 has a trigger input for low latency triggered acquisition. Due to the wide temperature capability it does not require heating or cooling in wind tunnel, flight test and other harsh environments. The pressure transducers are vibration and moisture resistant leading to extreme reliability. Modules with 16 sensors each are individually replaceable by the user. This allows for different pressure ranges and modes (differential and absolute) in the same scanner. The KMPS also has auto-zero capability.

For additional details see manual (KM 8000).



INPUT		KMPS-1-64							
		0.07 1	0.14 2	0.35 5	0.7 10	1.7 25	3.5 50	7 100	17 BAR 250 PSI
		Gage				Gage or Absolute			
		1.5 Times Rated Pressure to 300 PSI (21 Bar) Maximum							
		2 Times Rated Pressure to 300 PSI (21 Bar) Maximum							
		8 to 32 VDC							
		300 mA							
		100 Megohms @ 50 VDC							
ANALOG OUTPUT		Output Impedance							
		< 100 Ohms							
		Full Scale Output (Analog)							
		0.5 to 4.5 V							
		Resolution							
16 Bit									
DIGITAL OUTPUT		Bandwidth (-3dB)							
		DC to 1000 Hz							
		Total Error Band							
		± 0.5% FSO (Typ.)							
		Interface							
RS-485 or Ethernet									
		Resolution (Pressure)							
		24 Bits or 0.0015% F.S.							
		± 0.2% Typ. (± 0.5% Max.)		± 0.1% Typ. (± 0.25% Max.)					
		Conversion Rate							
275 Samples/Sec/Channel									
ENVIRONMENTAL		Operating Temperature Range							
		-65°F to 255°F (-55°C to 125°C)							
		Compensated Temperature Range							
		-65°F to 255°F (-55°C to 125°C)							
		Linear Vibration							
10g Peak, Sine 10 to 2000 Hz									
PHYSICAL		Reference Pressure							
		0-30 PSIA							
		Electrical Connection							
		15 Pin Micro D-Sub							
		Weight							
1.1 lbs (500 Grams)									
		Sensing Principle							
		Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon							
		Pressure Port							
		.040 or .063 Bulged Tubulations (60° angle or straight)							

Note: Custom pressure ranges, accuracies and mechanical configurations available. Dimensions are in inches. Dimensions in parenthesis are in millimeters. All dimensions nominal. (L) Continuous development and refinement of our products may result in specification changes without notice. Copyright © 2014 Kulite Semiconductor Products, Inc. All Rights Reserved. Kulite miniature pressure transducers are intended for use in test and research and development programs and are not necessarily designed to be used in production applications. For products designed to be used in production programs, please consult the factory.