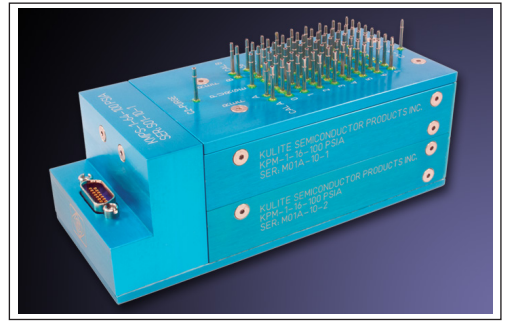


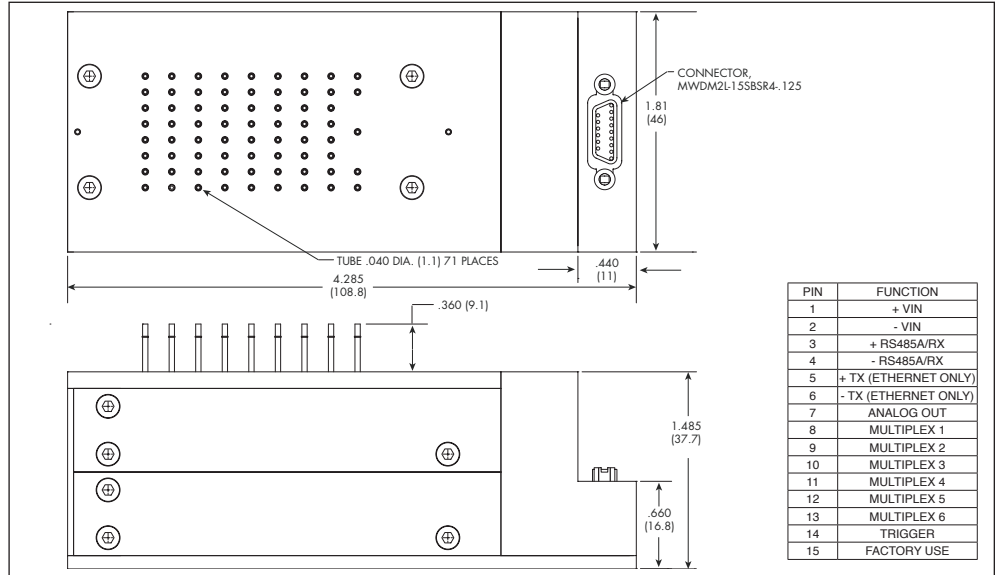
**kulite**  
**PRESSURE SCANNER**  
**KMPS-1-64-XX-Y SERIES**

- 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**<sup>®</sup>
- 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).

		KMPS-1-64							
INPUT	Pressure Ranges	0.07	0.14	0.35	0.7	1.7	3.5	7	17 BAR
		1	2	5	10	25	50	100	250 PSI
	Operational Modes	Gage				Gage or Absolute			
	Proof Pressure	1.5 Times Rated Pressure to 300 PSI (21 Bar) Maximum							
	Burst Pressure	2 Times Rated Pressure to 300 PSI (21 Bar) Maximum							
	Rated Electrical Excitation	8 to 32 VDC							
	Maximum Current	300 mA							
ANALOG OUTPUT	Insulation Resistance	100 Megohms @ 50 VDC							
	Output Impedance	< 100 Ohms							
	Full Scale Output (Analog)	0.5 to 4.5 V							
	Resolution	16 Bit							
	Bandwidth (-3dB)	DC to 1000 Hz							
DIGITAL OUTPUT	Total Error Band	± 0.5% FSO (Typ.)							
	Interface	RS-485 or Ethernet							
	Resolution (Pressure)	24 Bits or 0.0015% F.S.							
	Total Error Band (Pressure)	± 0.2% Typ. (± 0.5% Max.)		± 0.1% Typ. (± 0.25% Max.)					
ENVIRONMENTAL	Conversion Rate	275 Samples/Sec/Channel							
	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							
	Reference Pressure	0-30 PSIA							
PHYSICAL	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.