

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

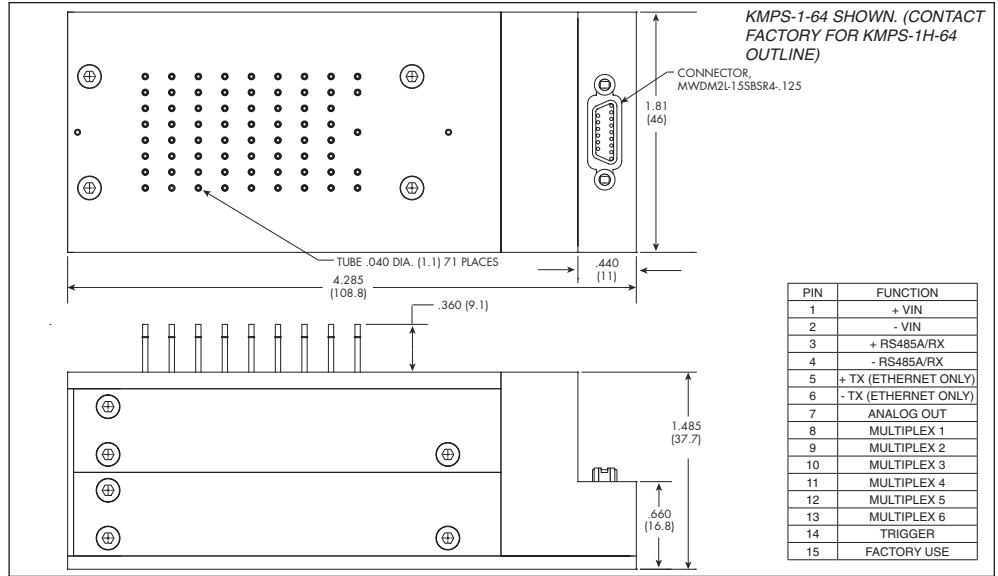
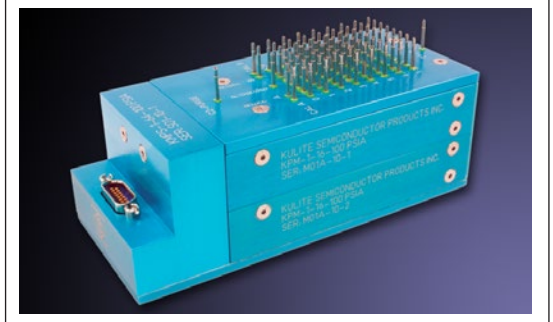
- High Accuracy Digital Compensation
- Multiplexed Analog Output
- High Speed Digital Output (RS-485 or Ethernet)
- No Heating or Cooling Needed
- Wide Temperature Range  
-65°F to +255°F (-55°C to +125°C)
- Silicon on Silicon Integrated Sensor **VIS®**
- Auto Zero
- Integral Purge
- IEEE-1588 Timing

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. zero capabilities. The KMPS also has auto-zero capability.

For additional details see manual (KM 8000).

**PATENT PENDING**



	KMPS-1-64						KMPS-1H-64		
INPUT	Pressure Ranges	0.35	0.7	1.7	3.5	7	17	35	50 BAR
	Operational Modes	Differential		Differential or Absolute					
	Proof Pressure	2 Times Full Scale to a Maximum of 1000 PSI (70 BAR)							
	Burst Pressure	3 Times Full Scale to a Maximum of 1000 PSI (70 BAR)							
	Rated Electrical Excitation	8 to 32 VDC							
	Maximum Current	300 mA							
	Insulation Resistance	100 Megohms @ 50 VDC							
ANALOG OUTPUT	Output Impedance	< 100 Ohms							
	Full Scale Output (Analog)	0.5 to 4.5 V							
	Resolution	16 Bit							
	Bandwidth (-3dB)	DC to 1000 Hz							
	Total Error Band	± 0.5% FSO (Typ.)							
DIGITAL OUTPUT	Interface	RS-485 or Ethernet							
	Resolution (Pressure)	24 Bits or 0.0015% F.S.							
	Total Error Band (Pressure)	± 0.1% FSO 0 to 255°F (-18°C to 125°C) (Typ.)				± 0.25% -65°F to 255°F (-55°C to 125°C) (Typ.)			
	Conversion Rate	275 Samples/Sec/Channel							
	Baud Rate	300 to 921,600 bpS							
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	Electrical Connection	15 Pin Micro D-Sub							
	Weight	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. (G) 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.