



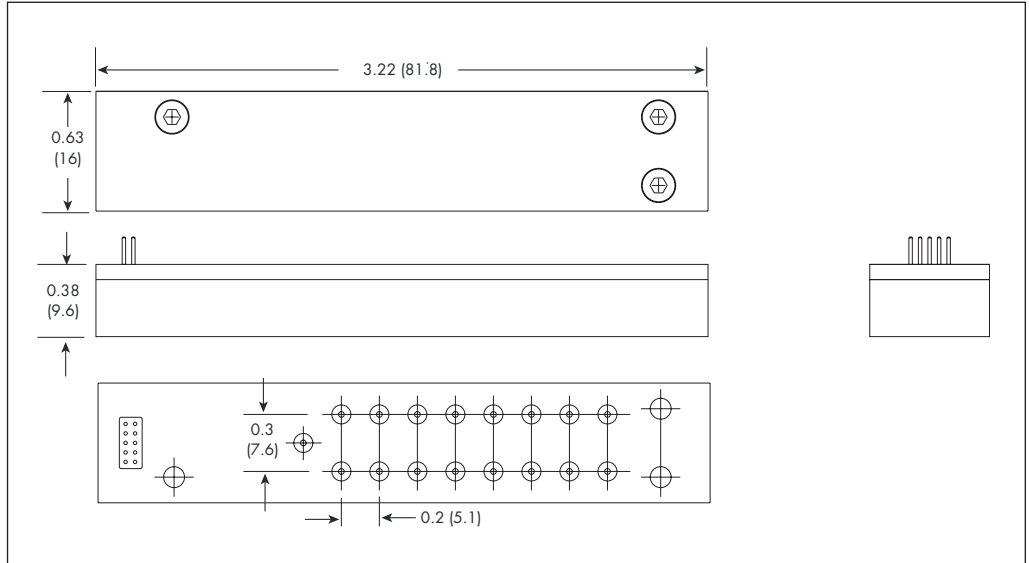
## PRESSURE SCANNER MODULE

### KPM-1-16 SERIES KPM-1H-16 SERIES

- High Accuracy Digital Compensation
- No Heating or Cooling Needed
- Wide Temperature Range  
-65°F to +255°F (-55°C to +125°C)
- Mates with all KMPS Series Pressure Scanners
- Silicon on Silicon Integrated Sensor **VIS®**



The KPM-1-16 is a 16 position pressure scanner module. This module mates with any Kulite KMPS Series Pressure Scanner as well as being forward compatible with future pressure scanner chassis from Kulite. The temperature correction coefficients for the 16 on-board sensors are stored in internal memory. This allows for easy mating with any Kulite pressure scanner. Modules with different pressure ranges and modes (differential or absolute) can be attached to the same KMPS Series Pressure Scanner allowing for a multi-range scanner. Modules can be individually replaced allowing for great flexibility during a test and easy replacement between tests.



## PATENT PENDING

		KPM-1-16							KPM-1H-16		
INPUT	Pressure Ranges	0.35 5	0.7 10	1.7 25	3.5 50	7 100	17 250	21 300	35 500	50 BAR 750 PSI	
	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	Supplied by KMPS									
	Maximum Current	Supplied by KMPS									
	Insulation Resistance	100 Megohms @ 50 VDC									
OUTPUT	Resolution (Pressure)	24 Bits									
	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.)				
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	10 Pin Custom Connector									
	Weight	22 Grams									
	Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon									
	Pressure Port	17 "O" Ring Face Seals (0.017" x 0.040") Included									
	Mechanical Connection	3 Flat Socket Head Screws (2-56 x 0.5") Included									

Note: Custom pressure ranges, accuracies and mechanical configurations available. Dimensions are in inches. Dimensions in parenthesis are in millimeters. All dimensions nominal. (D) 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.