



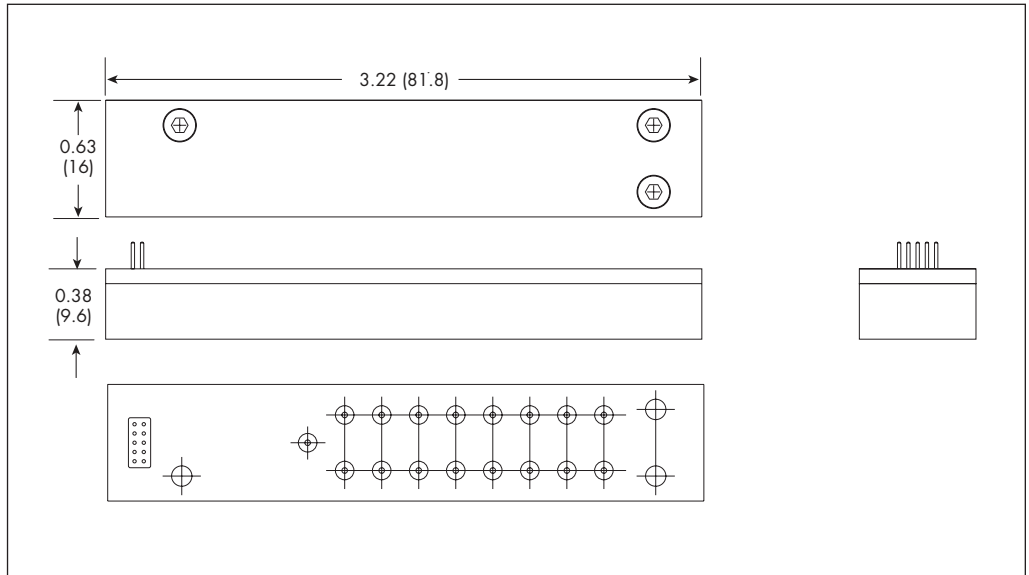
PRESSURE SCANNER MODULE

KPM-1-16 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

INPUT								
Pressure Ranges	0.35	0.7	1.7	3.5	7	17	21 BAR	
	5	10	25	50	100	250	300 PSI	
Operational Modes	Differential		Differential or Absolute					
Proof Pressure	2 Times Full Scale (Min.)							
Burst Pressure	3 Times Full Scale (Min.)							
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. Continuous development and refinement of our products may result in specification changes without notice - all dimensions nominal. (B)

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