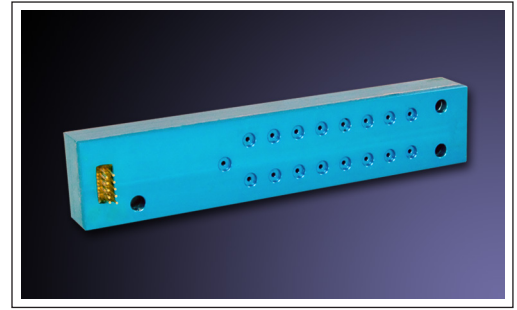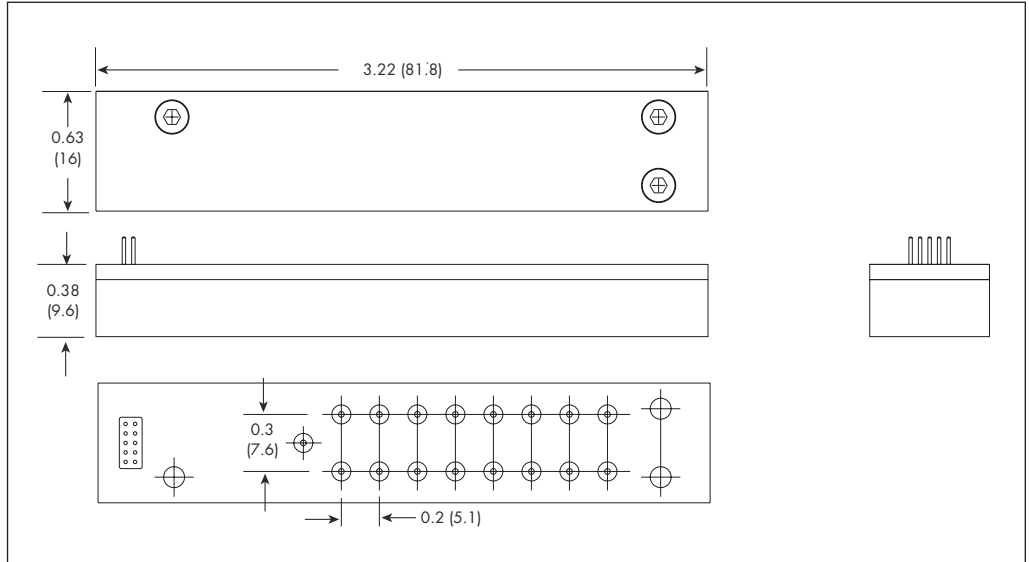# PRESSURE SCANNER MODULE

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**®
- Patented Design

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 chasis 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.

		KPM-1-16								
INPUT	Pressure Ranges	0.07 1	0.14 2	0.35 5	0.7 10		1.7 25	3.5 50	7 100	17 BAR 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	Supplied by KMPS								
	Maximum Current	Supplied by KMPS								
	Insulation Resistance	100 Megohms @ 50 VDC								
OUTPUT	Resolution (Pressure)	24 Bits								
	Total Error Band (Pressure)	± 0.2% Typ. (± 0.5% Max.)		± 0.1% Typ. (± 0.25% Max.)						
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								
	Reference Pressure	0-30 PSIA								
PHYSICAL	Electrical Connection	10 Pin Custom Connector								
	Weight	.05 lbs (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								