



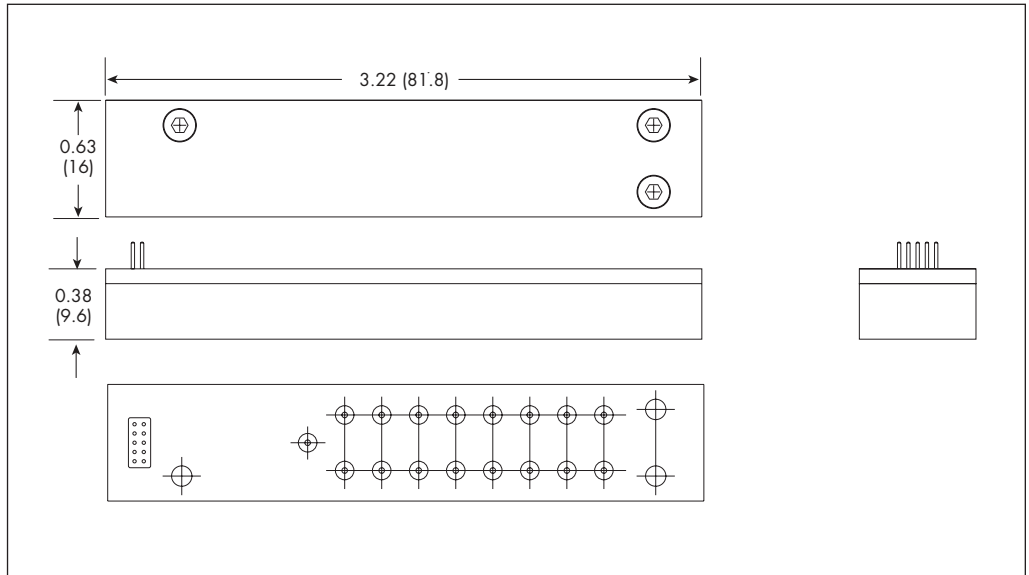
## PRESSURE SCANNER MODULE

### 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**

|                               |  |
|-------------------------------|--|
| <b>INPUT</b>                  |  |
| Pressure Ranges               | 0.35 0.7 1.7 3.5 7 17 21 BAR<br>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   |
| <b>OUTPUT</b>                 |  |
| 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.) |
| <b>ENVIRONMENTAL</b>          |  |
| 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   |
| <b>PHYSICAL</b>               |  |
| 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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