## 

## PRESSURE SCANNER **KMPS-2-64-XX-YY SERIES KMPS-2H-64-XX-YY SERIES**

- High Accuracy Digital Compensation
- High Speed Digital Output
- (RS-485 or Ethernet)
- · No External Heating or Cooling Needed
- Wide Temperature Range -65°F to +255°F (-55°C to +125°C)

The KMPS-2-64 is a 64 position pressure scanner with high accuracy digital output over either an RS-485 or Ethernet bus. There is an internal heater which keeps the internal temperature above freezing to avoid internal icing. An optional motor allows for digital control over the purge mechanism. The KMPS also features auto-zero capabilities.

The KMPS-2-64 is ideally suited for the flight test market. The Ethernet version features IEEE-1588 timing for precise correlation between multiple devices on the network. The pressure sensors 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.

## For additional details see manual (KM 8001).

PIN DESIGNATIONS													
	AIR PURGE &	NO PURGE	MOTOR PURGE										
	ETHERNET RS485			ETHERNET	RS485								
PIN	FUNCTION	FUNCTION	PIN	FUNCTION	FUNCTION								
1	VIN +	VIN +	1	VIN +	VIN +								
2	VIN -	VIN -	2	VIN -	VIN -								
3	RX +	RS485A	3	RX +	RS485A								
4	RX -	RS485B	4	RX -	RS485B								
5	TX +	SPARE	5	TX +	SPARE								
6	TX -	SPARE	6	TX -	SPARE								
7	TRIGGER	TRIGGER	7	PURGE ACT	PURGE ACT								
8	TRIGGER REF	TRIGGER REF	8	PURGE REF	PURGE REF								
9	SPARE	SPARE	9	SPARE	SPARE								
10	SPARE	SPARE	10	SPARE	SPARE								
11	SPARE	SPARE	11	SPARE	SPARE								
12	SPARE	SPARE	12	SPARE	SPARE								
13	SPARE	SPARE	13	SPARE	SPARE								
14	SPARE	SPARE	14	SPARE	SPARE								
15	SPARE	SPARE	15	SPARE	SPARE								
16	SPARE	SPARE	16	SPARE	SPARE								
17	SPARE	SPARE	17	SPARE	SPARE								
18	SPARE	SPARE	18	SPARE	SPARE								
19	CASE GROUND	CASE GROUND	19	CASE GROUND	CASE GROUND								

- Auto Zero
- Integral Purge
- IEEE-1588 Timing
- · Silicon on Silicon Integrated Sensor VIS®

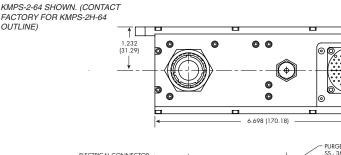
PATENT PENDING

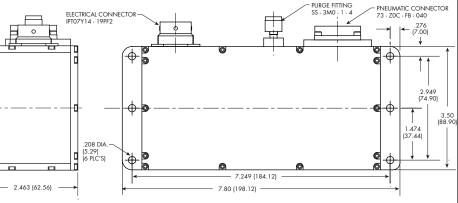


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			ĸ	KMPS-2H-64							
	Pressure Ranges	0.3		1.7	3.5	7	17	35	50 BAR		
INPUT	5	5	10	25	50	100	250	500	750 PSI		
	Operational Modes	Differential Differential or Absolute									
	Proof Pressure	2 Times Full Scale (Min.)									
	Burst Pressure	3 Times Full Scale (Min.)									
	Rated Electrical Excitation	20 to 32 VDC									
	Maximum Current	300 mA + 2A For Heater									
	Insulation Resistance	100 Megohms @ 50 VDC									
DIGITAL OUTPUT	Interface	RS-485 or Ethernet									
	Resolution (Pressure)	24 Bits or 0.0015% F.S.									
	Total Error Band (Pressure)	0.25% -65°F to 255°F (-55°C to 125°C) (Typ.)									
	Conversion Rate	275 Samples/Sec/Channel									
	Baud Rate (RS-485)	9600 bps to 1.8 Mbps									
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)									
ENVIR	Linear Vibration	10g Peak, Sine 10 to 2000 Hz									
Ļ	Electrical Connection	19 Pin Circular Bayonette Connector (IPT07Y14-19PF2)									
PHYSICAL	Weight	4 lbs. (1.8 kg)									
l≯s	Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon									
훕	Pressure Port	Pneumatic Quick Disconnect (73-Z0C-FB-040)									

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