

PRESSURE SCANNER

KMPS-2-64-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)
- Auto Zero
- Integral Purge
- IEEE-1588 Timing
- Silicon on Silicon Integrated Sensor VIS®

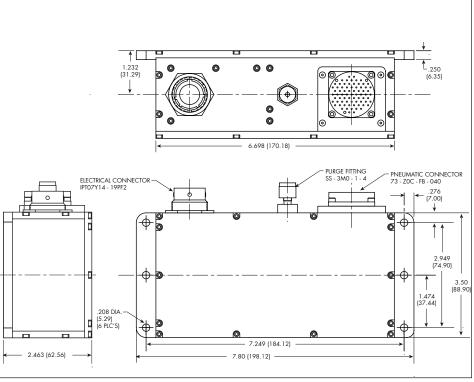
The KMPS-2-64 is a 64 position pressure scanner with high accuracy digital output over either an RS-485 or Ethernet bus. There is an internal heater which keeps the internal temperature above freezing to avoid internal icing. An optional motor allows for digital control over the purge mechanism. The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

	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							



PATENT PENDING



INPUT	0.35	0.7	1.7	3.5	7	17	21 BAR		
Pressure Ranges	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	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)	± 0.1% FSO 0 to 255°F (-18°C to 125°C) (Typ.) 0.25% -65°F to 255°F (-55°C to 125°C) (Typ.)								
Conversion Rate	275 Samples/Sec/Channel								
Baud Rate	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)								
Linear Vibration	10g Peak, Sine 10 to 2000 Hz								
PHYSICAL Electrical Connection	19 Pin Circular Bayonette Connector (IPT07Y14-19PF2)								
Weight	4 lbs. (1.8 kg)								
Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon								
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. Continuous development and refinement of our products may result in specification changes without notice - all dimensions nominal. (D)