PRESSURE SCANNER KMPS-3-64-XX-YY SERIES KMPS-3H-64-XX-YY SERIES

- High Accuracy Digital Compensation Water Resistant Design
- High Speed Digital Output
- (RS-485 or Ethernet) Silicon on Silicon Integrated
- Sensor VIS®
- Wide Temperature Range
- Auto Zero
- Integral Purge
- IEEE-1588 Timing
- · No External Heating or Cooling Needed PATENT PENDING

-65°F to +255°F (-55°C to +125°C) The KMPS-3-64 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-3-64 has a water resistant case ideal for outdoor testing.

The KMPS-3-64 is ideally suited for the flight and ground test market. The Ethernet version features IEEE-1588 timing for precise correlation between multiple devices on the network. The in the same scanner. pressure sensors are vibration and moisture resistant leading to extreme reliability. Modules with 16 For more information see the KMPS-3 manual.

sensors each are individually replaceable by the user. This allows for different pressure ranges and modes (differential and absolute)

press		N DESIGNATIONS		e resistant leading to extreme reliability. Modules with 16 For more information see the KMPS-3 manual.								
		MOTOR PURGE		↓ 9.50 (241.3)								
	ETHERNET	RS485	RS485B		1 440					<u> </u>		L .182
PIN	FUNCTION	FUNCTION	FUNCTION		1.460 (37.07)	0		Ô		00		(4.62)
1	RX +	N/C	N/C						~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
2	RX - TX +	N/C N/C	N/C N/C						\odot			
4	TX -	N/C	N/C					\sim				
5	N/C	N/C	N/C				i U	0		00	J	
6	N/C	N/C	N/C								Í.	
7 8	N/C N/C	N/C N/C	N/C N/C			↓ 		8.40 (213	.36)	L	→	
9	PURGE +	PURGE +	SHORT TO 13				- ELECTRICAL C	CONNECTOR		RGE FITTING		
10	N/C	N/C	N/C			_	D38999/231	YC35CN	SS	- 200 - 1 -2	UMATIC CONN	ECTOR
11	N/C	N/C	N/C		.282						ZOC - FB - 040	
12 13	VIN - PURGE -	VIN - PURGE -	VIN - SHORT TO 9		(7.16) → SLOT THRU			_				
13	N/C	RS485 -	RS485 -		- (4 PLC'S) ↔	@				(ଭାଲ⊢	↑
15	N/C	N/C	N/C			Ŭ	Ũ		0			↑ I
16	N/C	N/C	N/C									
17	N/C	N/C	N/C)					$ \oplus $	
18 19	N/C VIN +	N/C VIN +	N/C VIN +		R.141							3.50
20	N/C	RS485 +	RS485 +		(3.58) THRU	0				(፼	(88.90) 4.25
21	N/C	N/C	N/C		(8 PLC'S)							(107.95)
22	N/C	N/C	N/C)†					+(+)+	<u>↑</u>
											.1.00 (25.4)	
						µ. _®	@		·@·		◉┤╚┤┼	<u> </u>
					AL L	<u> </u>		And a state of the			<u> </u>	↓ ·
				2.90 (73.66) -	→ .275 → 4 (6.99)			.95 (227.33) -			L	375 (9.53)
	1] [KMPS-3-6	4			KMF	PS-3H-64	
	Pressure Ranges				0.35 0.7	1.7	3.5	7	17	35	50 BAF	۲
					5 10	25	50	100	250	500	750 PS	I
	Operational Modes		Differential Differential or Absolute									
INPUT	Proof Pressure		2 Times Full Scale (Min.)									
A N	Burst Pressure			3 Times Full Scale (Min.)								
-	Rated Electrical Excitation			20 to 32 VDC								
	Maximun	n Current		300 mA + 2A For Heater								
		n Resistance		100 Megohms @ 50 VDC								
<u> </u>	-			-								
	Interface			RS-485 or Ethernet								
A F	Resolution (Pressure)			24 Bits or 0.0015% F.S.								
DIGITAL	Total Error Band (Pressure)			0.25% -65°F to 255°F (-55°C to 125°C) (Typ.)								
āā	Conversion Rate						275 Sample	s/Sec/Char	nnel			
	Baud Rate (RS-485)						R	S485				
Ļ		- (/										
ENTAL	Operating Temperature Range					-6	5°E to 255°E	(-55°C to 1	125°C)			
				-65°F to 255°F (-55°C to 125°C)								
Σ	Compensated Temperature Range					-6	5°F to 255°F	(-55°C to 1	125°C)			
0								,				
H								10.				
Compensated Temperature Range -65°F to 255°F (-55°C to 125°C) Linear Vibration 10g Peak, Sine 10 to 2000 Hz												
	Flectrical	Connection			Pin Circula	Threaded Co	onnector (D	38999/2370	35CN)			
PHYSICAL		Connection		22 Pin Circular Threaded Connector (D38999/23YC35CN)								
SIC	Weight	<u></u>		4 lbs. (1.8 kg)								
∣≥	Sensing Principle			Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon								
					Fully Active Fo							
F	Pressure	Port			Fully Active Fo		ic Quick Disc	onnect (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. 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.

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