ADI1137K / ADI 1137K-RR Parallel Data Display

Technical Specifications

Function
This instrument receives parallel data and converts it to represent a range; the data is then retransmitted as parallel data.

RR Option
External LINK must be fitted between Terminals 13 to 18 for this option. To zero the display at a desired bit count; link terminal 31 to terminal 33 for 5 seconds, when zeroed remove link. The zeroed bit count is retained even after power down. This offset count is then transmitted as the parallel data output

Parallel Data Input
12 Bit parallel data input
Logic levels: Low = 0Vdc,
High = 5V to 24Vdc

Parallel Data Output
12 Bit parallel data output
Logic levels: Low = 0Vdc, High = 24Vdc
Each Bit can drive up to 5mA

Display
4 Digit display
Display range: 000.0 to 359.9°
Accuracy: +/- 1 LSB

Alternative specifications may be available on request

Performance
Refresh rate: 50ms

Protection
Isolation 500Vdc: (Input + Output)/Supply/Earth
Internal Fuse.
RF Immunity: 20MHz-3GHz/5.25GHz ≤10V/m, 80MHz-1GHz/5.6GHz ≤30V/m

Environmental Conditions
Storage Temperature: -40 to 70°C
Operating Ambient: -15 to 55°C
Relative Humidity: 5 – 95% RH

Supply
Voltage: 24Vdc +/- 10%
Max power consumption: 2.8 Watts

Dimensions
Front plate (Box): Width 233mm (177mm) x Height 80mm (60mm) x Depth 3mm (127mm)
Cut out: Width 179mm x Height 62mm

Customer Termination
Fixed screw terminals as standard
(Plug-in terminals optional)

TB	Function		TB	Function	
1	1 (LSB)	Input bits	18	Ref(0V)	Output bits
2	2		19	1 (LSB)	
3	3		20	2	
4	4		21	3	
5	5		22	4	
6	6		23	5	
7	7		24	6	
8	8		25	7	
9	9		26	8	
10	10		27	9	
11	11		28	10	
12	12 (MSB)		29	11	
13	Ref(0V)		30	12 (MSB)	
14	Earth		31	Zero (RR option)	
15	+Ve Supply		32	NC	
16	-Ve Supply		33	Zero (RR option)	
17	Screen		34	NC	
			35	NC	
NC = Not connected			36	NC	

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Issue 3:2020