

LVDT Control Box

CB-100 Series



The CB-100 Series Boxes are ideal for operating low impedance LVDTs for industrial and test applications.

The CB-100A Control Box includes Signal Conditioner Card model EL-10. It is full function Signal Conditioner for 5 or 6 wire LVDTs and analog output ± 10 VDC max and 10mA max.

The CB-100B Control Box includes Signal Conditioner Card model EL-15. It is a full function Signal Conditioner for 4, 5 or 6 wire LVDTs and analog output ± 5 VDC max and 10mA max.

The front panel features: ON/OFF button and signal lamp, ZERO and GAIN adjustment trimmers, LVDT and Output voltage connectors.

The CB-100 Series Control Boxes are compatible with all LVDTs and LVDT based transducers manufactured by Singer Instruments & Control Ltd.

In additions to the standard CB-100 Control Box, there are a variety of custom made Control Boxes, such as CB-100 with 3.5 to 4.5 voltage display, multi channel (2 to 12) LVDTs, wide band frequency response and other versions by request.



Specifications

Name	CB-100A	CB-100B
LVDT excitation		
Voltage	3.5 V rms @ 60 mA max	1.7 V rms @ 30 mA max
Frequency	7 kHz	5.5 kHz
Output		
Voltage	± 10 V DC max	± 5.5 V DC max
Current	10 mA max	10 mA max
Trimmer Adjustments		
Zero	$\pm 20\%$ of full scale reading	± 0.8 V total
Gain	up to x5, trimmer adjustable	up to x8, trimmer adjustable
Non linearity	$\leq 0.3\%$ of F.S.	$\leq 0.3\%$ of F.S.
Operating temperature range	0° to +70°C	0° to +70°C
Temperature Coefficient	$< 0.01\%$ of FS / °C	$< 0.01\%$ of FS / °C
Warm up time	10 minutes	10 minutes
Operating	5 or 6 wire LVDT	4, 5 or 6 wire LVDT
Isolation	500 V DC / Peak AC	500 V DC / Peak AC
LVDT connector	Female Lumberg socket KJV-50 (5 pins)	Female Lumberg socket KJV-50 (5 pins)
Power requirements	220 $\pm 5\%$ VAC, 50 Hz.	220 $\pm 5\%$ VAC, 50 Hz.
Dimensions (mm)	245 x 155 x 70	245 x 155 x 70

How To Order

Ordering example: Model number: CB-100A

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