

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-35-Analog. It is full function Signal Conditioner for 4, 5 or 6 wire LVDTs and analog output ± 7 VDC max and 10mA max.

The CB-100B Control Box includes Signal Conditioner Card model EL-35-Digital. It is a full function Signal Conditioner for 4, 5 or 6 wire LVDTs. It has RS232 digital output, and also analog output ± 7 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 digit 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	10 V rms max @ 30 mA max	10 V rms max @ 30 mA max
Frequency	5 kHz	5 kHz
Output		
Digital output	no	RS232
Voltage	± 7 V DC max	± 7 V DC max, or RS232
Current	10 mA max	10 mA max
Trimmer Adjustments		
Zero	$\pm 20\%$ of full scale reading	± 0.8 V (up to ± 5 V upon customer request)
Gain	up to x5, trimmer adjustable	$\pm 10\%$ (up to x8 upon customer request)
Non linearity	$\leq 0.3\%$ of F.S.	$\leq 0.3\%$ of F.S.
Operating temperature range	0° to $+70^\circ$ C	0° to $+70^\circ$ C
Temperature Coefficient	$< 0.01\%$ of FS / $^\circ$ C	$< 0.01\%$ of FS / $^\circ$ C
Warm up time	10 minutes	10 minutes
Operating	4,5 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 KFV-50 (5 pins)	Female Lumberg socket KFV-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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