



DESCRIPTION

The Model CD148 is a low cost Carrier Demodulator Plug-in Module for the MC1 Modular System. It is used to demodulate the output of linear variable differential transformers. When excited by the 5 volt 3 kHz carrier in the MC1 Module Case, the CD148 will produce a ± 10 Vdc signal from LVDT transducers with outputs between 200 and 1000 mV/V. The standard frequency response for the Model CD148 is 0 to 200 Hz with less than 10 mV of ripple on the 10 Vdc output.

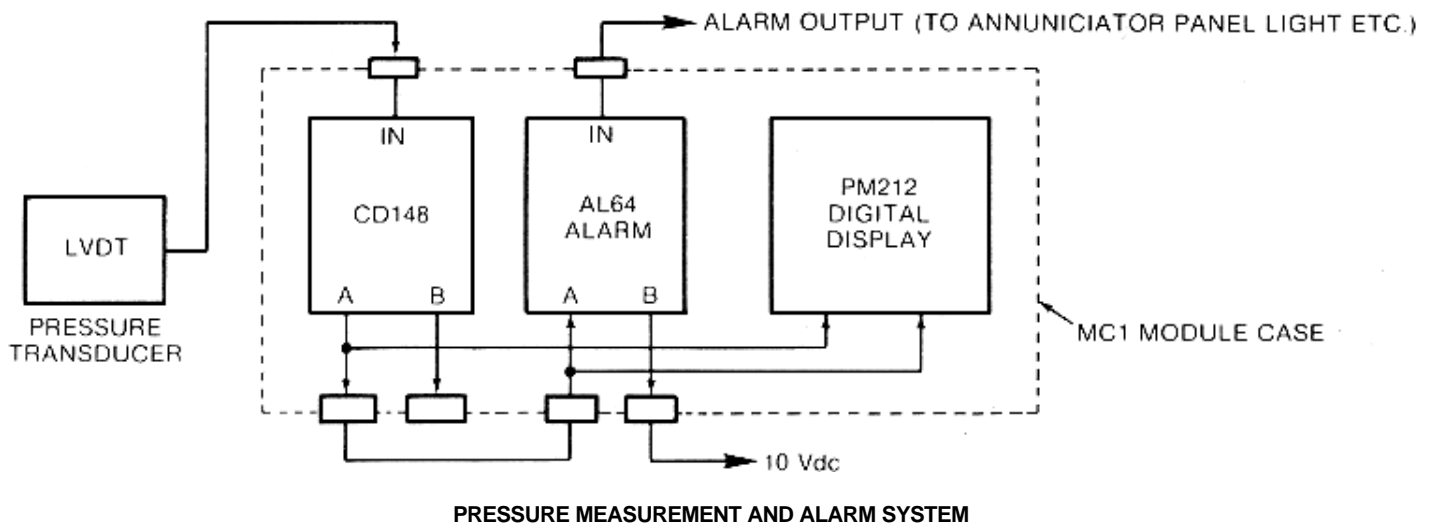
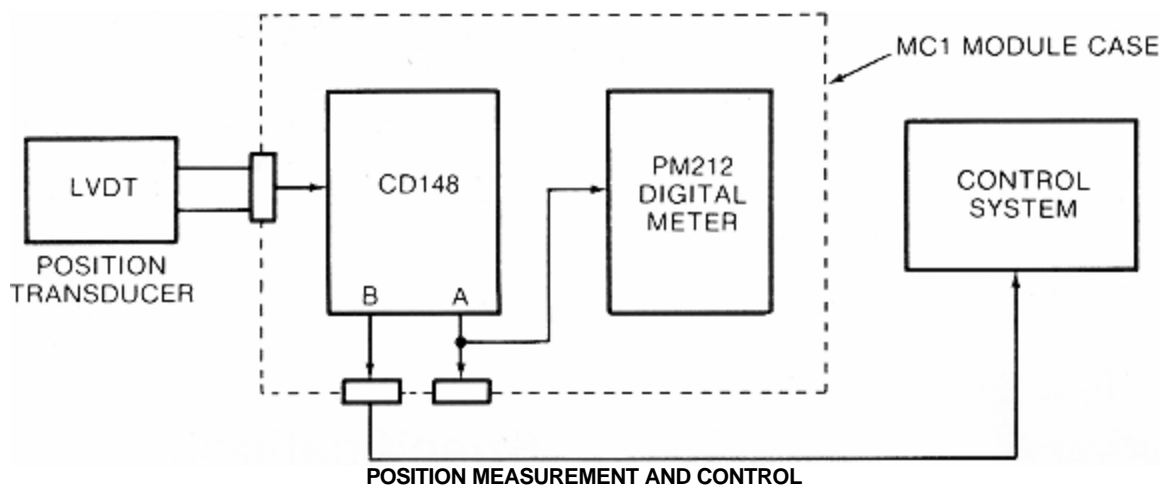
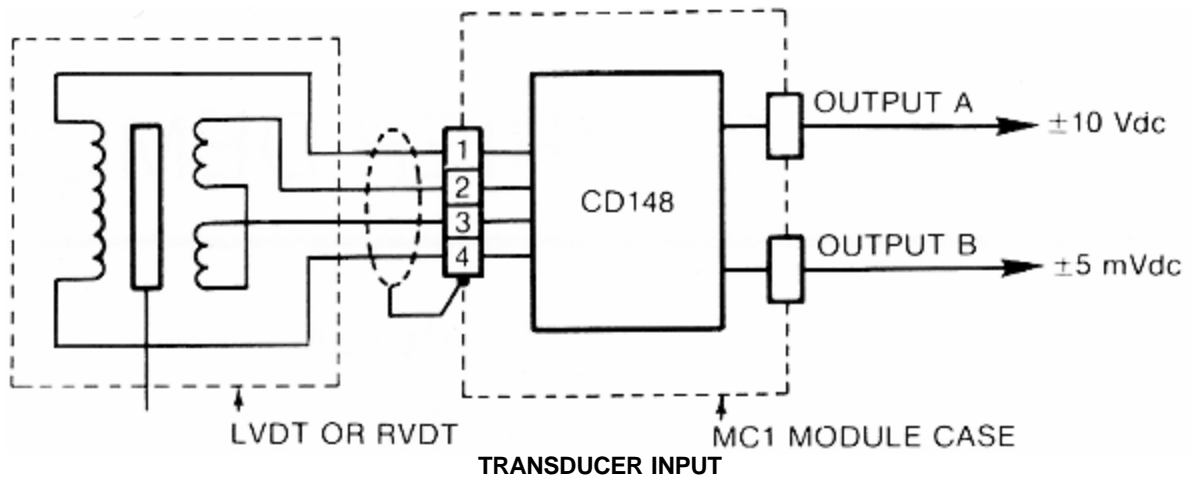
Features

- LVDT Input
- ± 10 Volt Output
- 3 kHz Carrier Operation
- Wide-Range Zero and Span Controls

Specifications

Input Sensitivity:	200 mV/V to 1000 mV/V for 10 Vdc output
Bridge Excitation:	5 Vrms, 3 kHz from a precision center-tapped transformed.
Bridge Configuration:	LVDT
Input Impedance:	Less than 100 kohms.
Zero Control:	± 125 mV/V
Output A:	± 10 Vdc at 10 mA.
Output B:	± 10 Vdc at 10mA.
Output Impedance:	Less than 10 ohms.
Frequency Response:	DC to 200 Hz flat $\pm 10\%$
Linearity:	$\pm 0.05\%$ FS maximum.
Temperature Range:	0°F to 160°F
Thermal Zero Shift:	0.005% FS/°F
Thermal Sensitivity Shift:	0.01%/°F
Power Requirements:	5 Vrms, 3 kHz & ± 15 Vdc supplied from MC1 module Case.

TYPICAL APPLICATIONS



Accessories

P/N 7616-2 Plug-in Module Connection Extender

Specifications subject to change without notice.



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