



## Features

- Compact Dual Channel Plug-in
- 3 kHz Sine Wave Carrier
- For Variable Reluctance or LVDT Transducers
- +/-10 Vdc Outputs

## DESCRIPTION

The CD218-2 is a dual-channel carrier demodulator plug in module for use with variable reluctance or LVDT transducers. It utilizes the 3 kHz, 5 Vrms sine wave carrier supplied by the MC170 power supply for transducer excitation, and demodulates and amplifies the signal to an output of +/-10 Vdc full scale. Both channels have individual front panel zero and span adjustments. The high input impedances eliminate loading the transducer output, and the low output Impedance allows connection to any readout or recorder. One MC-170 case with 32 CD218-2 modules provides economical signal conditioning for 64 channels of instrumentation.

A signal channel version (CD28CM) is also available.

## FRONT PANEL CONTROLS & TEST POINTS

- "A" Zero - to adjust signal input zero balance for Channel A; adjustment range +/-10 mV/V
- "A" Span - to adjust span for Channel A; adjustment range from 15 mV/V to 100 mV/V for 10Vdc output
- "A" DC Test Jack - to allow monitoring of Channel A output during setup and calibration
- "B" Zero, Span, & DC Test Jack - same as for Channel A

Note: All controls are screwdriver actuated. Ground connection for all test points is on MCI 70 rear panel.

## Specifications

### EACH CHANNEL

<b>Input Sensitivity:</b>	15 mV/V to 100mV/V for 10 Vdc output
<b>Span Control:</b>	Continuously adjustable. 15mV/V to 100mV/V for 10V output
<b>Transducer Excitation:</b>	5 Vrms, 3 kHz carrier
<b>Input Impedance:</b>	100 kohms
<b>Zero Range:</b>	+/-10mV/V
<b>Output Voltage:</b>	+/-10 Vdc
<b>Output Current:</b>	+/-2 mA
<b>Output Impedance:</b>	Less than 10 ohms
<b>Temperature:</b>	<b>Operating Range:</b> 0°F to 150°F
	<b>Zero Shift:</b> 0.005%/°F
	<b>Span Shift:</b> 0.01%/°F
<b>Power Requirements:</b>	5 Vrms, 3 kHz and +/-15 Vdc supplied from MC170 Module Case Power Supply
<b>Size:</b>	2.76"H x 0.45"W x 7.5"D (7.01 cm x 1.14 cm x 19.05 cm)

## INPUT OUTPUT CONNECTIONS

The plug-in module card can be used in any module position of the Module Case, as the case is internally wired to provide the proper operating and excitation voltages to all positions.

Signal Input and output connections are made to the terminals or connectors at the rear of the Module Case. Connections should be made in accordance with the instruction information in the Instruction Manual.