



DESCRIPTION

The BA112 is designed as a signal conditioning amplifier plug-in module to the MC1 Multi-Channel Transducer System. The module provides a high-impedance differential input for AC and DC signals. It also provides a low-impedance, single ended output. Single ended input signals may also be inserted into the BA112 by means of a simple external jumper at the amplifier's input connector.

Overall gains of 10, 1.0 and 0.2 are obtained by means of a three-position toggle switch/Additionally, the gain may be varied from zero to 100% at each setting with a 10-turn calibrated control.

Features

- Differential Input for AC and DC Signals
- 10 VDC Output
- High Input Impedance
- Low Output Impedance
- Selectable Gain

Specifications

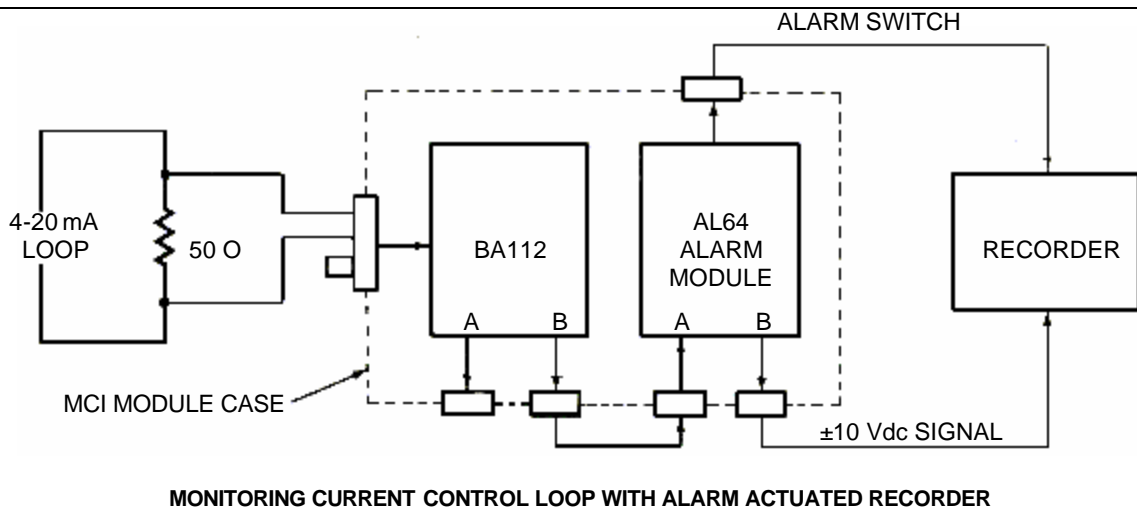
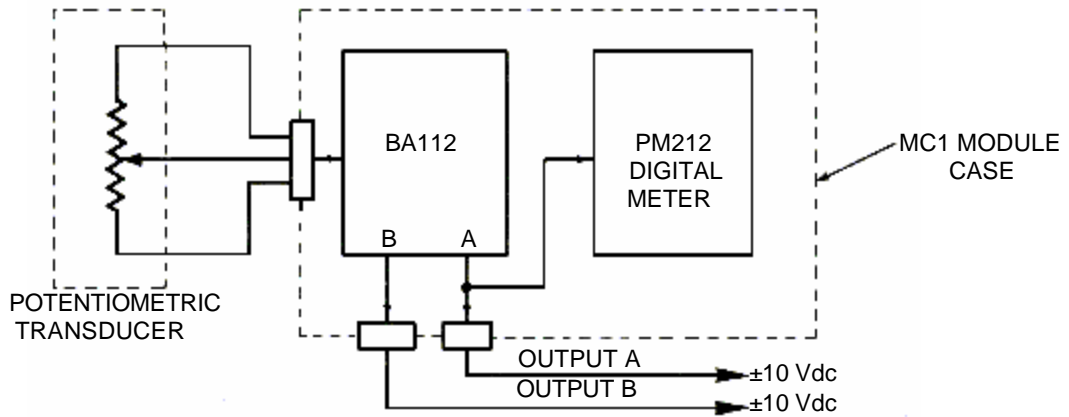
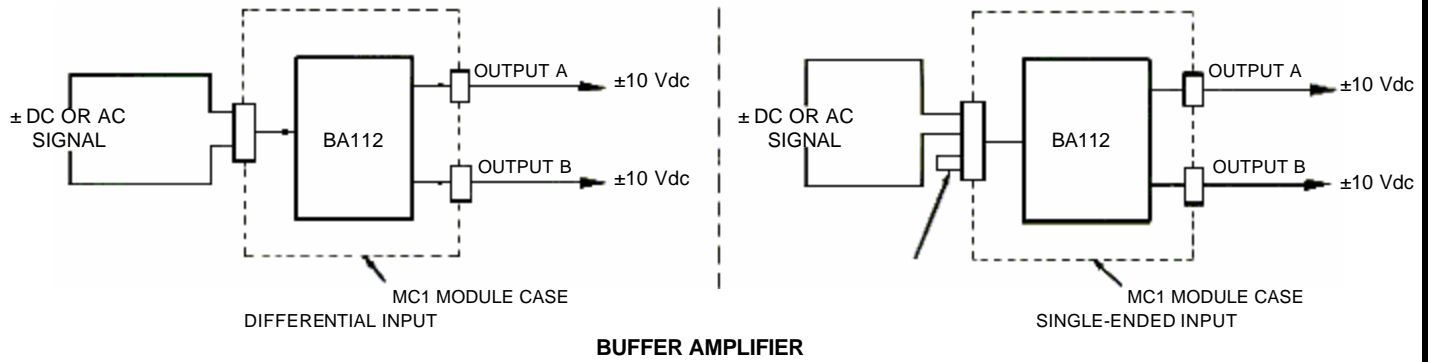
Input:

| Max S.E. Input | Gain Setting | Max. Diff. Input |
|----------------|--------------|------------------|
| $\pm 12V$ | 0.2 | 10 V |
| $\pm 12V$ | 1.0 | 10 V |
| $\pm 6V$ | 10.0 | 1 V |

Unit is not damaged by momentary application of 115 V.

| | |
|-------------------------------|---|
| Input impedance: | 22 megohms, each input to circuit ground Gain: 10, 1.0 and 0.2, switch selectable |
| Gain Vernier: | Provides 0 to 100% adjustment at each gain setting by 10-turn potentiometer with calibrated dial |
| Output: | +10 V at 10 mA max. No damage if output terminals shorted |
| Output Impedance: | Less than 10 ohms |
| Frequency Response: | Flat DC to 10 kHz |
| Common Mode Rejection: | 60 dB typical, DC to 1 kHz. May be further increased by internal adjustment |
| Zero Offset Voltage: | Nominally zero, possible small change with gain settings Separate internal adjustment at each amplifier stage |
| Input Bias Current: | 0.02 μA typical, each input |
| Temperature: | |
| Range: | 0°F to +160°F |
| Zero Shift: | ± 20 $\mu V/^\circ F$ referred to input |
| Span Shift: | 0.005%/°F |

TYPICAL APPLICATIONS



Accessories

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



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