

MOV Backseat Relay Model 201602-DC

Technical Bulletin – Using AC Current Probes with DC Relay

The 201602-DC option uses AC/DC hall effect/transformer type probes to monitor DC or AC current. These probes have a voltage output and the relay has a high impedance input suitable for the probes.

Transformer type current probes, such as the AEMC SR600 and SR601 have a current output and cannot be used directly with a 201602-DC relay. The 201602-AC (formerly 201602) relay has internal 1 ohm shunts on the inputs for use with these probes.

An AC current probe may be used on a DC relay if an external 1 ohm shunt is added to the phase input. This may be done with various adapters, for example:

- Sheathed banana plug to banana jack adapter, Pomona 6728
- Banana plug, double, stackable, solderless, Pomona MDP
- Resistor, 1 ohm, 1 watt, 1%

Use the SETUP menus to configure as follows:

- AC/DC Probe Gain = 1 mV/A

Note that the DC option only uses one probe. Refer to User's Manual for information regarding monitoring a single phase of a 3 phase motor.

When complete, restore AC/DC Probe Gain to the default value of 10 mV/A for AC/DC probes.