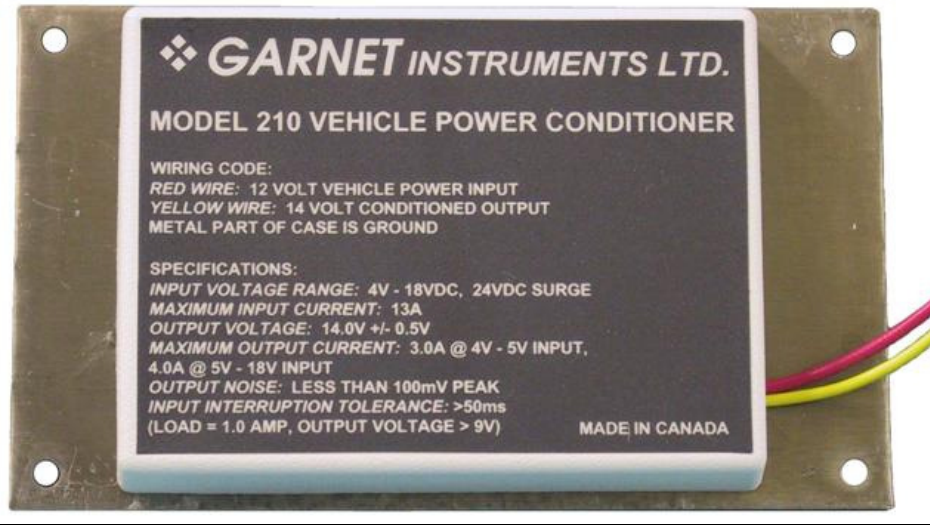


MODEL 210

VEHICLE POWER CONDITIONER



FEATURES:

- **Maintains a constant 14 volts output despite variations in voltage from the vehicle electrical system. Ideal for operating voltage sensitive equipment such as sensors, computers, and communications systems. Permits proper equipment operation despite inadequate electrical system voltage, and protects equipment from voltage surges of either polarity.**
- **Provides a constant output voltage despite wiring and connector losses, engine cranking loads, or alternator failures. If the input voltage momentarily drops below the minimum of 4 volts, the output voltage will remain above 9 volts for at least 50ms at one amp load current.**
- **Efficient switching regulator design will not overload the vehicle electrical system.**
- **Fully protected against low input voltage, voltage spikes and transients, output short circuits, and improper installation.**
- **Low profile enclosure comes complete with mounting flanges for easy installation. Internal electronics are sealed against humidity.**
- **Operates from -45 °C to +60 °C for reliable operation in all temperature conditions.**
- **Two year limited warranty.**

Your Dealer:

 **GARNET**
INSTRUMENTS LTD.

SPECIFICATIONS

Nominal output voltage: 14.0 +/- 0.5 Volts
Maximum output current: 3 Amps @ 4-5VDC input, 4 Amps @ 5-18VDC input
Minimum output current: 0 Amps
Minimum input voltage: 4.0 Volts
Maximum input voltage: 18 Volts (normal operation)
80 Volts (short term transient exposure)
No load input current: Less than 100 mA
Output noise and ripple: Less than 100 mV peak
Output short circuit duration: Indefinite
Operating temperature range: -45 °C to +60 °C
Fault tolerance protection: Low input voltage (less than 4.0 volts)
Transient input voltage suppresser (load dump protection)
Input - output lead reversal protection
Output short circuit or overload current limit
Dimensions: 3.5" wide by 6.0" long by 0.9" high
Case material: Mounting plate: Sheet Aluminum
Top enclosure: Plastic
Enclosure rating: In cab mounting only
Connecting lead size: 18 Gauge by 8" long
Connecting lead color code: Red input lead, Yellow output lead

INSTALLATION

1. Choose a mounting location. Avoid areas exposed to high temperature, outside weather, or physical damage. Some ventilation should be provided since heat is generated during normal operation.
2. Mount the unit using the four mounting holes in the aluminum base. The base must be well grounded, use a grounding wire and lug if the mechanical mount does not provide a good ground.
3. Connect the red wire to the vehicle 12 volt power source. The 210 does draw some current even with no load, so the power source should be an ignition or accessory switched source.
4. Connect the yellow wire to the 12 volt power input of the equipment to be operated.