UNIT DESCRIPTION AND SPECIFICATIONS

The A-703-2 digital panel meter is a single range, bipolar, 3 1/2 digit, LED, DC voltmeter. It is powered by an external +5VDC supply and has a full scale range of 2V. This unit is designed with a small case size, auto-zeroing, and easy calibration from right side of meter.

- **Power Requirements** — +5VDC +/- 5%, .2A max.
- **Full Scale Range** — Voltage: +/- 2V
- **Accuracy** — 0.5% Rdg., +/- 1 digit
- **Input Impedance** — 1M ohm
- **Tempco** — 100ppm/°C typical
- **Settling Time** — Under 2 sec. typical
- **Operating Temperature** — 0°C to +60°C
- **Storage** — -40°C to +70°C, 72 hrs., -40°C to +60°C, indefinite.
- **Humidity** — 80% RH @ 40°C max.; 70% RH @ 60°C max.,
- **Decimal Points** — set by jumper link or solder pad, 1.XXX, 1.X.X, 1.XXX.X, 1.XXX.
- **Polarity** — negative input; minus sign at left, positive input; plus sign at left.
- **Weight** — approx. 2 oz.
- **Display** — 0.56" high LED
INSTALLATION
Mechanical Installation

The figure below shows a pictorial view and overall dimensions of the A-703-2 DPM.

Panel Preparation

Prepare a panel cut-out as shown below at the desired location.
DPM Installation

- Insert meter in panel cutout from the front.
- From rear, place short side of mounting clips in slots at top and bottom of case. Face short side of clips to rear.
- Thread the screws into the clips and tighten against panel. If it is necessary to remove lens, grasp the sides of the meter and press in until lens bows out. Pull out lens at center.

CONNECTIONS AND CONFIGURATION
Electrical Connections

The model A-703-2 accepts a 10 pin mating connector at the rear for power and signal inputs. The figure below shows the pinout configuration and the location on the rear of the meter.
OPERATION

- Signal Inputs: apply between pin 1 (Hi) and pin 6 (Lo)

- Line Voltage: apply DC power to pin 9 (positive) and pin 7 (ground)

- Decimal Point Selection: Activation requires the selection of solder pads R, S, H, and L. The factory setting is for a 2V meter with selection of X.XXX (pad L closed). To use other selections, open pad L and close the desired solder link. See figure for location of pads and selections.

CALIBRATION

- Allow 5 minutes warm-up and set power supply voltage to +5VDC +/- 5%.

- Apply a signal at the appropriate pins equivalent to 1900 counts for the range being used.

- Turn potentiometer R2 at right side of meter to obtain desired display reading.

POTENTIOMETER R2 - ACCESSIBLE FROM CASE