



TEST SYSTEMS INTERNATIONAL, INC.

27963 CABOT ROAD, LAGUNA NIGUEL, CALIFORNIA 92677 U.S.A.

(949) 582-3163 1 (800) 835-1954 FAX (949) 582-3164

Model AM-22PM DIGITAL AMMETER

AM-22PM Digital Panel Meter designed to replace the old Analog Ammeters that had a 2.75" to 4" diameter mounting hole to provide a greater accuracy of output amperes with infinite hold, auto reset and update functions that will meet or exceed all industrial and military requirements.

High visibility LED digital panel meters display the output current in amperes. Meters hold this reading indefinitely for accurate recording of each shot. As each shot is taken the meter will automatically reset, compute and display the new readings in less than a second.

Standard Meters are mean average FWDC calibrated for operation from your existing 50mv/1000 Amp meter shunt either in place of or in conjunction with your machines meter. Meters are preset but final calibration depends on accuracy of your existing meter shunt. An externally accessible adjustment is available for final calibration. They may be ordered for AC or FWDC signal input and different meter shunt ratings. AC/DC True RMS meter is also available.

*Note standard options box below.



SPECIFICATIONS:

A. Current Meter

- 1. *Basic Accuracy = 1 % + 2 digits 0-2kHz CF2 mean average
- 2. Range = 100 to 19,999 amperes (0.10 to 19.99 x 1000 A)
- 3. DPM Display = 3 ½ LED .56" (14mm) digits
- 4. Conversion Time = 280msec
- 5. Auto Reset Time = 1 second
- 6. *Signal Input = 50mv/1000A Meter Shunt
- 7. Input Impedance = 62 Ω

B. *Power Line Input = 90 to 120 VAC 4VA 50/60Hz

C. Temperature = 40 to 120°F (5 to 49°C)

D. Dimensions HxWxD = 4 x 4.3 x 2.5 inches (102 x 109 x 64mm)

E. Weight = 8oz. (227g)

F. External Controls

- 1. Auto Hold Switch
- 2. Meter Calibration

G. Internal Adjustments

- 1. Meter Zero

*OPTIONS: SPECIFY WHEN ORDERING

- 1. AC/DC True RMS 1% = 2 digit 0-6kHz CF4
- 2. Signal input for AC or HWDC mean average.
- 3. Different Meter Shunt signal input.
- 4. 220 VAC Power Line input.

INSTALLATION INSTRUCTIONS

AM-22PM PANEL MOUNT CAT. #22022

1. AM-22 Panel meter was designed to replace an existing analog meter that has a 2.75" to 4" diameter cutout.
2. Use AM-22 Panel as a template for locating mounting holes over old meter cutout by removing 4 screws from front panel circuit board standoffs.
3. Disconnect LED DPM connector (note Pin1) and remove calibration adj. pot panel holder and auto switch. Lay panel over your old cutout to clear LED DPM, Adj. and Auto Switch.
4. True up panel and mark circuit board mounting holes on your panel. Mounting holes are 3.1 X 2.8 inches.
5. Remount circuit board from inside panel by re-attaching DPM connector. (Red wire is pin 1 on left side of meter pins.)
6. Install Adj. pot holder and auto switch (with black wire down) back onto panel.
7. Screw 4 ea. 4-40 X 1/2 to circuit board stand offs to secure meter to your panel, then attach AC power and meter shunt leads.

Operation

8. Meter calibration adjustment is recommended at about 1000 Amp point. Use small screw driver to access adjustment in pot holder above meter.
9. DPM Auto Reset requires 100 Amp minimum input to update meter reading.
10. Auto switch will disable Hold function to check DPM zero 0.00 and Reset meter for Short Test on MPI equipment and observe currents below 100 Amps.

