



# 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

WWW.TSI-NDT.COM

## Model AM-22DIN DIGITAL AMMETER

AM-22 DIN current meter is for installation on new or old mag particle equipment to provide the most up to date 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 pre-set 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. Ammeter

1. \*Basic Accuracy = 1 % + 2 digits 0-2kHz CF2 mean average
2. Range = 100 to 19,999 amperes (0.09 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 = 62Ω

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

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

D. Dimensions HxWxD = 1.9 x 3.8 x 4.8 inches (48 x 96 x 122mm)

E. Weight = 1 lb. (454g)

#### F. External Controls

1. Zero reset
2. Meter Adjust

#### G. Internal Adjustments

1. Zero

#### H. Hardware

1. Input Terminal Strip
2. Mounting clips

### \*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.



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## A. AM-22 DIN Operation

1. Attach wires to terminals observing label markings. Terminal 1 & 2 is AC line input, 3 in GND, 4 & 4 is shunt signal input and 6 & 7 is external manual reset signal input.
2. Shunt signal input is not polarized. Shielded twin lead maybe required if meter reading is erratic sue to noise pickup.
3. Auto reset occurs with a minimum input signal of 3mv. About 60 amps forma 50mv-1000A shunt.
4. To manually reset meter display to zero. Momentarily short across 6 & 7.
5. Meter calibration ADJ. is on rear panel. CW will increase ammeter reading. A small screw driver is required to access slot adjustment.
6. Zero adjust is internal. Remove rear panel for access.

## B. Case Mounting

1. Cut out = 3.62 X 1.73" (96 X 44mm)
2. Snap-in mounting clips are provided for Panel Installations.

## C. Rear Panel

