

Model DTM-25A Technical Data

Model Number	DTM-25A	DTM-25A (220V, 50 Hz.)
Part Number	N500404001	N500405001
Display Range	0 to 12,000 amps	0 to 12,000 amps
Display Type	5/8" LED	5/8" LED
Accuracy	+1%	+1%
Power Requirements	115V, 60 Hz., Single Phase	220V, 50 Hz.
Shunt Range		
- AC-DC Shunt	1,000 amps, 25 mv	1,000 amps, 25 mv
- HWDC Shunt	1,000 amps, 50 mv	1,000 amps, 50 mv
Temperature Range	1 to 50 deg. C (32 to 122 deg. F)	1 to 50 deg. C (32 to 122 deg. F)
Humidity Range:	0 to 100% R.H. (<i>Non-condensing</i>)	0 to 100% R.H. (<i>Non-condensing</i>)
Dimensions:	15-1/4" x 7" x 6-1/4"	15-1/4" x 7" x 6-1/4"
Weight	8.26 kg (15.5 lb.)	8.26 kg (15.5 lb.)
Recommended Calibration Interval	The DTM-25A should be returned to the factory every six months for recalibration and routine inspection service. The recommended six month interval is based upon normal usage of intermittent readings. If the the unit is used continuously, recalibration should be performed more often.	

Method of Operation

Select the proper shunt for the type of current to be measured and connect the cord to the shunt.

- Use the 1,000 ampere, 25mv shunt for AC or DC.
- Use the 1,000 ampere, 50vV shunt for Half-Wave DC.

1. Turn the selector switch on the front panel of the test meter to select the proper type of current.

- Set the selector switch on AC RMS when calibrating AC current against RMS.
- Set the selector switch on AC/DC average when calibrating AC, DC or HW against Average.

2. Connect the shunt to the current source.

- For wet horizontal units, clamp the shunt between the headstock and tailstock.
- For MPI units with cable or bus bar outputs, connect the shunt in the cable circuit.

3. Plug the line cord into a 115 volt AC outlet.

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4. Activate the magnetizing current output. The test meter will display and hold the current reading until the next magnetizing current is activated. The meter display must be multiplied by a factor of 1000 to obtain the actual current reading (e.g. a display of 5.50 equals actual current reading of 5,500 amps).

Note: Excessively long or frequently repeated energizing could damage the shunt due to overheating. Always allow the shunt to cool before energizing.



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