

**POWERMASTER**

**TEST AND MEASURING  
EQUIPMENTS**



*Tools for every conceivable need.....*

[www.powermaster.in](http://www.powermaster.in)

# TEST AND MEASURING EQUIPMENTS

## Micrometer

### Standard Series



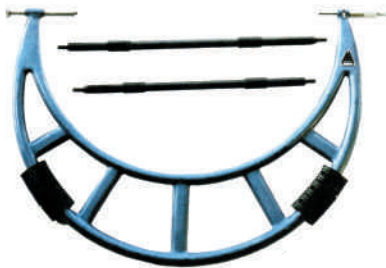
#### Features :

- Carbide measuring faces.
- Painted or chrome-plated frame.
- Ratchet stop.

#### Range :

0-25mm*0.01	0-1in*0.001	25-50mm*0.01	1-2in*0.001	50-75mm*0.01	2-3in*0.001	75-100mm*0.01	3-4in*0.001
-------------	-------------	--------------	-------------	--------------	-------------	---------------	-------------

### Pipe frame Series



- Wide measuring range with adjustable anvil. High standard collars enable that reading does not have to be reset when changing collars.
- Standard collars:  
Within 1000mm/40": 25mm/1", 50mm/2"  
Over 1000mm/40": 50mm/2", 100mm/4".
- Carbide measuring faces. Painted frame.
- Pipe combined frame for light weight and high rigidity.
- Resolution: 0.01mm(Metric);0.001"(Inch).

Metric		Inch		Accuracy
Order No.	Range	Order No.	Range	
<b>Ratchet stop</b>				
<b>Travel of micrometer head: 25mm/1" ; Micrometer thread pitch: 0.5mm/0.025"</b>				
104-13-000	300- 400 mm	104-13-001	12-16"	0.011mm
104-14-000	400- 500 mm	104-14-001	16-20"	0.013mm
104-15-000	500- 600 mm	104-15-001	20-24"	0.015mm
104-16-000	600- 700 mm	104-16-001	24-28"	0.016mm
104-17-000	700- 800 mm	104-17-001	28-32"	0.018mm
104-18-000	800- 900 mm	104-18-001	32-36"	0.020mm
104-19-000	900-1000mm	104-19-001	36-40"	0.020mm
<b>Travel of micrometer head: 50mm/2" ; Micrometer thread pitch: 1mm/0.05"</b>				
104-20-000	1000-1200mm	104-20-001	40-48"	0.020mm
104-21-000	1200-1400mm	104-21-001	48-56"	0.024mm
104-22-000	1400-1600mm	104-22-001	56-64"	0.028mm

## Vernier Caliper

#### Features :

- All measuring faces are ground & lapped for extreme accuracy.
- Built in Laser marked vernier scale
- There are two convex guide ways on the body so as to avoid the abrasion of the graduations.
- Handy Structure, Stable & Smooth operation.
- Accuracies as per IS.3651.



#### Range :

6" - 150mm	8" - 200mm	10" - 250mm	12" - 300mm	18" - 450mm	20" - 550mm	24" - 600mm
------------	------------	-------------	-------------	-------------	-------------	-------------

# TEST AND MEASURING EQUIPMENTS

## Test Gauges

Powermaster Test Gauges are designed for testing & calibration of general service gauges.

### Specification :

- Dial Size  $\phi$  150mm - 250mm
- Range Pressure, Vacuum, Compound
- Accuracy 0.25% / 0.5% of F.S.D. As Per ANSI



### Range :

0-100" H2O

0-400" H2O

0-30 PSI

0-100 PSI

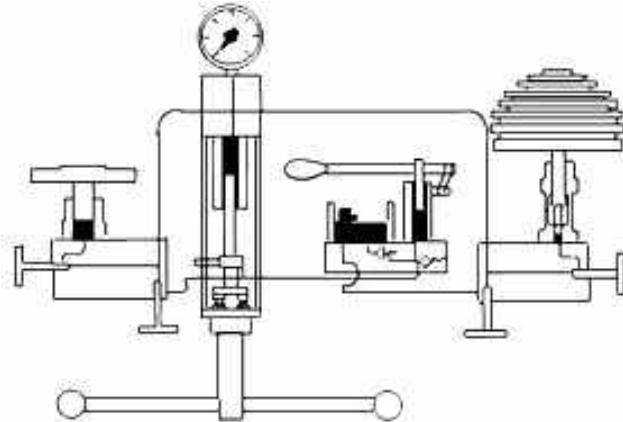
0-400 PSI

0-1000 PSI

0-2000 PSI

Stands of standard pressure gauges portable stands for various pressure gauges are available in block form to end adjustment.

## Dead Weight Pressure Gauge Tester



MODEL		kgf / cm <sup>2</sup> or bar			lbf / in <sup>2</sup>		
		Min.	Step	Max.	Min.	Step	Max.
DW30	LP	0.2	0.05	16	2	1	200
	HP	10	0.5	160	100	10	2000
DW31	LP	0.4	0.1	25	5	1	360
	HP	24	1	250	240	10	3600
DW32	LP	0.4	0.1	40	5	1	550
	HP	34	1	400	500	10	5500
DW33	LP	1	0.2	55	10	2	800
	HP	50	2	600	600	20	8000
DW34	LP	1	0.2	75	10	2	1200
	HP	50	2	800	600	20	12000
DW35	LP	1	0.2	100	10	2	1500
	HP	50	2	1000	600	20	15000

# TEST AND MEASURING EQUIPMENTS

## Inclined Manometer (Variable) Howard



Acrylic Body Inclined Manometer.

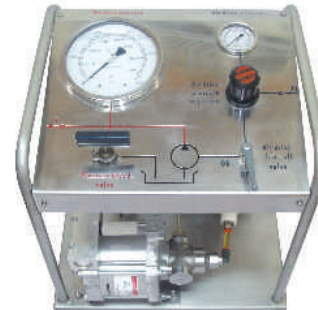
### Technical Specification :

- CVG solid acrylic body portable manometers are fabricated from 1 inch. Thick acrylic plastic solid block, vertically unbreakable stable and free of distortion. PVC plastic engraved scale, zero adjusting knob, level bottom and panel mounting holes provide with manometer. 10 mm wg to 800 mm wg.

## Hydrostatic Test Pumps

### Technical Specification :

- PressureJet offers wide range of hydrostatic pump ranging from 1 lpm to 773 lpm and pressure up to 2800 bar. Hydraulic test pump is either electric motor driven or engine driven. Pressure Jet also offers hydro test pumps with pre-filling cum pre-pressurizing cum pressure building system. For large volume of hydro test combine hydrostatic pressure testing unit is most preferred solution. This hydrotest pump is compact, efficient & cost effective, available in different combinations of pressure and flow.



### Electrically Operated :

Model	Flow rate (lpm)	Max. rated pressure-kg/cm2 (motor-hp)		
T2-10-10	1	500(2)	250(1)	125(0.75)

### Air Operated :

Model	Flow rate (lpm)	Max. rated pressure-kg/cm2		
PUAH2500	0.3	1500	2000	2500

## Hand Pump

The Powermaster Hydraulic Hand Pumps are compact and heavy duty with longer handle needing very little effort to generate max working load. All pumps are supplied with suitable fittings and stainless steel pressure gauge.



Model No.	Description	Usable Oil Capacity (Liters)	Outlet Coupler	Dimensions			Net Weight Kg.
				Length mm	Width mm	Height mm	
PU-HP-1500	1500 bar Hand Pump c/w 2000 bar gauge	2.0	HCS-150-F	750	120	200	11.0
PU-HP-1000	1000 bar Hand Pump c/w 1200 bar gauge	2.0	HCS-6Q-F	750	120	200	10.0
PU-HP-0700	700 bar Hand Pump c/w 1000 bar gauge	2.0	HCS-6Q-F	750	120	200	09.0

## TEST AND MEASURING EQUIPMENTS

### Portable Intrinsically Safe Simulator 4-20mA

#### Specification :

Voltage Range / Resolution / Accuracy
0 to 100 mV / 0.01 mV / .02% rdg + 2 LSD
0 to 10 V (source) / 0.01 V / .02% rdg + 2 LSD
0 to 30 V (measure) / 0.01 V / .02% rdg + 2 LSD
mA Range / Resolution / Accuracy
0 to 24 mA / 0.001 / .02% rdg + 2 LSD
mV (TC terminals) Range / Resolution / Accuracy
-10.00 to 75.00 mV / .01 mV / .025% of range + 1 LSD
Resistance Range / Resolution / Accuracy
15 to 3200Ω / 0.01 to 0.1Ω / 0.1 to 1.0Ω
Frequency Range / Resolution / Accuracy
2.0 to 1000.0 CPM / 0.1 CPM / ±.05%
1 to 1000 Hz / 1 Hz / ±.05%
1.0 to 10.0 kHz / 0.1 kHz / ±.25%



### Auto Transformer Variac

Input is single phase 220V AC, 50 Hz, output voltage can be adjusted from 0 to 250V AC. Maximum power rating is 5000 VA, maximum current is 20 Amps at 250V output.



#### Features & Specifications :

- Input : 220V AC/ 50 Hz
- Output : 0-250V AC
- Maximum power output : 5000 VA
- Maximum current output : 20 Amps (@250V)
- Net Weight : 44 lbs
- Dimension : 11.8" X 13.4" X 14.6"
- Warranty : 1 year

### Decade Resistance Box



#### Accuracy :

- 0.1%, for decades of : 100 ?, 1k ?, 10k ?, 100k ?, 1M ?.
- 1.0% for decades of 10?, 10 M?.
- 3.0% for decades of 1?, 100 M?.
- Basic stability for decades of 10 Ω to 10 MΩ: 100 ppm.

#### Specifications :

- Decades of 1 ?, 10 ?, 100 ?, 1k ?, 10k ?, 100k ?, 1M ?, 10 M?, 100 M?.
- Total resistance range: minimum 1 ? to maximum 1000 M ?.

# TEST AND MEASURING EQUIPMENTS

## High Voltage Multifunction Phasing Sticks

### Features :

- Designed to Exceed VDE 0681 part 5.
- Dual Color Coded Scale (% , Vac).
- Compare between Phases.
- Measure and test Phase to Earth.
- High Quality Fiberglass wound Rod.
- Self Powered operation-No Battery.
- Measure Phase to Phase.
- Hi immunity to interference fields.
- Suitable for indoor and outdoor use.
- Current is limited to  $\pm 1$  milli-ampere.
- Grounded or Ungrounded systems.
- Light weight, Robust & Compact.



### Range of Models :

- Models are available to cover system voltages from 1kV to 44kV @ 50 or 60Hz.
- All models have Neon and Analog Panel Meter indicators.

### Environmental

Operating Temperature :	-25°C to + 55°C
Operating Humidity :	20 to 96% RH.

Note : All specifications are subject to change .

## AVO Meter (Analog)

- It is a self-contained portable test set. It is used to measure various Voltages, Currents and Resistance.



### Specifications :

- DC Voltage : 4000 ohms per volts in DC  
2000 ohms per volt in AC  
0.25-10-50-250-1000V
- AC Voltage : 10-50-250-500-1000V
- DC/mA Current : 0.25-10-250 mA
- Resistance Range : 0-10K ohms, 0-1 M ohms
- Batteries : 2 Batteries type 915 [1.5 volts]
- Size : 120 x 90 x 35mm approx.

## Digital Multimeter

- Portable Multimeter has improved measurement functions, trouble shooting features, resolution and accuracy to solve more problems on motor drives, in plant automation, power distribution and electro mechanical equipment.

### Features :

- Optional magnetic hanger for easy setup and viewing while freeing your hands for other tasks.
- Large display digits and 2 level bright white backlight for increased visibility.
- Withstands hazardous 8,000 volt spikes caused by load switching and faults on industrial circuits and complies with second edition ANSI and IEC electrical safety standards.
- Improved sleep mode for long battery life.
- Relative mode to remove test lead resistance from low ohms measurements.
- Auto and manual ranging for maximum flexibility.



## TEST AND MEASURING EQUIPMENTS

Digital temperature indicator is portable microcontroller based, micro-power, precision general purpose thermometer designed for used with type J, K, T, R, S and RTD, PT100 sensors.



### Specification :

Display	: 5-digit 15 mm high LCD;
Input	: J, K, T, R, S, PT 100;
Accuracy	: 0.1% FS;
Power Supply	: 6 V DC (1.5 V x 4 alkaline)
Low Battery	: provided;
Size	: 80 x 140 x 22 mm approx.

## Underground Cable Router Tracer / Locator



### Description :

The Underground Cable Locator consists of a Transmitter and a Receiver, used in the underground utilities route locating, the depth measuring and long distance tracing.

Having multicoil electromagnetism technology on Pipeline & Cable Locator, enhanced the pipeline localization to decide the depth precision and the goal pipeline recognition capability, also could accurately carry on tracing and the localization in the pipeline crowded complex region to the goal pipeline. Thus Pipeline & Cable Locator is widely used in the telecommunication, electric, tap water, natural gas, physical prospecting, town planning and so on.

## Digital Battery Capacity Tester



Model No.	Max. Load	Display	Size in (mm)	For Testing
BCT-600	150/300/500 amp.	-	353x299x210	12 volt battery chg system
BCT-650	150/300/500 amp.	0-200 amps.	353x299x210	12 volt battery chg system

## TEST AND MEASURING EQUIPMENTS

### 600V, Megger

The PM600V, Megger industrial insulation and continuity testers combine the latest range of measurement techniques with new instrument design to provide a state-of-the-art tester that is compact and comfortable to hold. It is a basic CAT III, 600V Industrial Insulation Tester.



#### *Features :*

- Insulation testing to 600V and to 200Gohms.
- Continuity testing at 200mA down to 0.01ohms.
- Analog and dual digital display.
- Insulation & continuity limit alarms.
- AC / DC Voltage.

### Digital Tacho Meter

The touch-less digital tachometer, with a 'no contact operation' is safe and easy to use.



#### Non Contact Type

#### *Features :*

- Measures revolutions per minute anywhere from two to seventy-eight inches away from any rotating object.
- A 5-digit LCD is a highly visible HAVING 3/8-inch-high display.
- The unit provides readings of 10 to 99,999 revolutions per minute.
- The resolution is 0.1 below 1000 and 1 above.
- Accuracy is  $\pm 1$  RPM or 0.05%.
- Utilises a precision quartz crystal for an accurate time base.

**POWERMASTER LTD.**