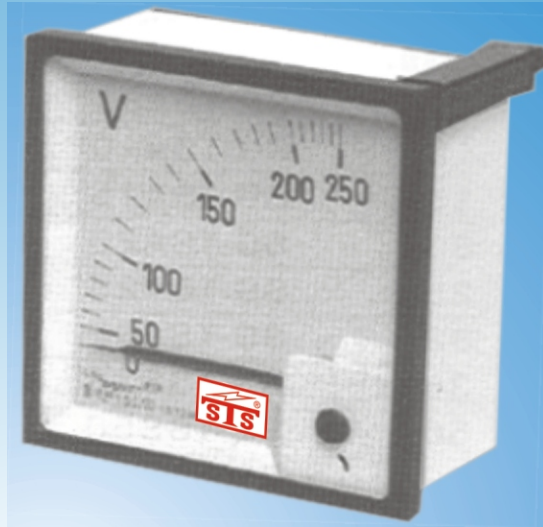
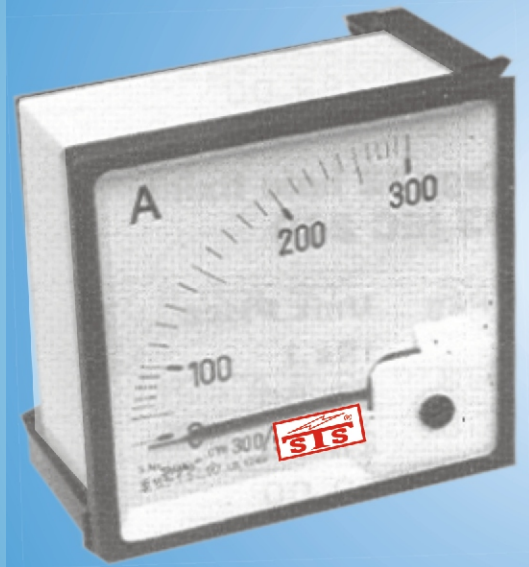




DIGITAL & ANALOGUE PANEL METERS



Directorate of Industries,
Uttar Pradesh
उद्योग निदेशालय उ०प्र०

★ CERTIFIED COMPANY ★



ANALOGUE PANEL METERS

GENERAL :

STS Voltmeters and ammeters have been found indispensable by Laboratories and Industrial Houses. All the components used in the manufacture of the instruments are selective and are designed to ensure long term accuracy and service. All parts/sub-assemblies are thoroughly inspected and gauged at all stages with utmost care by experts.

Constructions :-

The movements are strongly constructed incorporating synthetic sapphire jewel bearings, hard chrome plated highly polished pivots and phosphor-bronze cadmium copper hair springs. Moving coil meters are fitted with high flux density magnets resulting in linear scale. All these meters have zero adjuster accessible from the front.

Moving coil type meters :

Moving coil instruments are meant for the measurement of DC voltage and currents. All the meters are fitted with high flux density magnets resulting in linear scale.

Moving Coil rectifier type meters:

Rectifier type instruments are meant for the measurement of AC voltage and currents. These are moving coil instruments fitted with full wave rectifiers to measure AC quantities.

Moving Iron type Meters :

These are meant for measuring AC quantities. However, DC quantities could also be measured but with slightly low accuracy.

Following type tests are performed as per ISS: 1248-93

1. Vibration Test :-

The meters are subjected to vibrations. This test ensures that if there is any loose component it will be detected before the meter is passed.

2. Life Test :

The meter is subjected from zero to full scale and the counter meter records the number of operations.

3. High Voltage Breakdown Test :

The meter should withstand 2kV, AC if applied between electrical circuit and any metallic point of the meter for one minute.

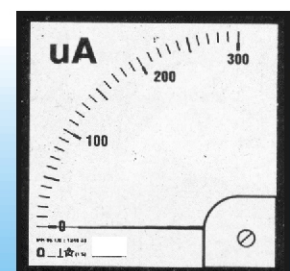
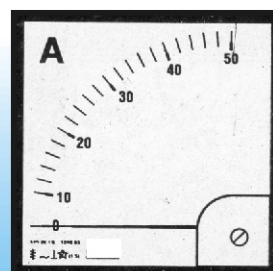
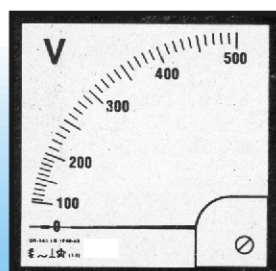
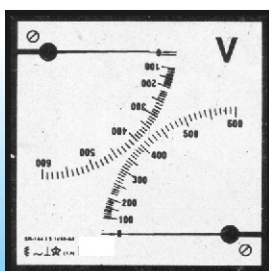
4. Over Load Test :- The meter is over loaded 120% of its rated capacity for two hours.

5. Insulation Resistance Test :-

ISS 1248-93 specifies that the insulation resistance should be above 5 megohms. The test is performed accordingly.

6. Accuracy Test :-

The accuracy test is performed as per ISS 1248-93. The error is calculated on the basis of full scale deflection of the meter





DIGITAL PANEL METERS

STS Digital Panel Meters have been developed to give instantaneous readings of various electrical parameters like V etc.

SIZES	:	1/2DIN (96 x48cm) & DIN (96 x96mm)
DIGITS	:	12.5 mm seven segment
AUX Supply	:	230 V AC
PANEL CUTOUT	:	44x92 mm for 1/2 DIN & 92x92 mm for DIN size

* Note :

1. Meters with an auxillary supply of 415V can be supplied against customer's requirement.
2. Green LED available against specific requirement.

Digital Volt Meters AC :-

0 to 500 V AC 0 to 1000V AC

Digital Ammeters AC :-

0-2A 0-20A

CTR :-

50/5, 100/5, 150/5, 200/5, 250/5, 300/5, 350/5, 400/5, 450/5, 500/5, 550/5, 600/5, 650/5
700/5, 750/5 & 800/5

Digital Frequency Meters :-

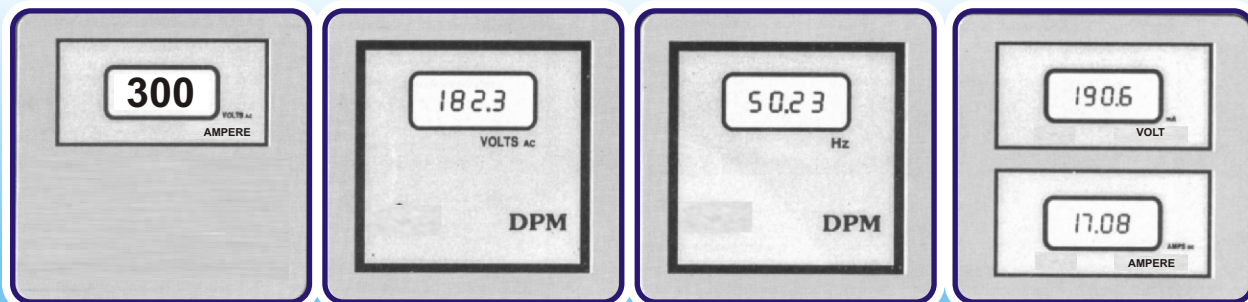
4 digit, 30 to 70 Hz, Line (Mains) Freq Meter & 4 Digit, 10 to 100 Hz Freq. Meter

Accuracy :

Digital Volt Meters (AC)	:	0.5% ± 2 Digits
Digital Ammeters (AC)	:	0.5% ± 2 Digits
Digital Frequency Meters	:	0.2% ± 2 Digits

Salient Features :

1. STS make Digital meters Body has been protected against shock. and over stress.
2. Special electronic enterlocking has been provided which ensure that any voltage distortion can not destroy the internat integrated circuit.



SHRI TULSI SWITCHGEAR PVT. LTD.
D-176, Sector-10, Noida