

RISHABH INSTRUMENTS PVT. LTD.

F-31,MIDC SATPUR ,NASHIK-422007

TEL: +91 253 2202251/202/162 FAX: 2351064

Email: info@rishabh.co.in

**TEST CERTIFICATE**

Product Type : Rish Insu 20 Date of Testing : 30.07.2023
 Serial No. : 2307085726 Temperature : 24 °C

Referance Standards : IEC 61557, IS 2992

Standard Instruments :

Make: Shanti Instruments MODEL: Resistance Box Sr. No. : 02

Make: Rishabh Instruments MODEL: Rish multi 15S Sr. No. : 136150

Standard Equipments are Traceable to National / International Standards

Specifications :

Measuring Range : 2GΩ

Test Voltage : 50 V to 1 kV

Low Resistance Measurement : upto 100 Ω

Voltage Measurement : 25V to 600 V AC/DC

TEST RESULTS :

1. Measurement of Test Voltage :

| Rotating switch Key position | Allowed Deviation in Terminal voltage (volts) | Reading on Rishabh Multimeter -15S |
|---------------------------------|--|---------------------------------------|
| 50V | 50V < Display < 65V | 60.40 V |
| 100V | 100V < Display < 130V | 120.40 V |
| 250 V | 250V < Display < 325V | 293.60 V |
| 500 V | 500V < Display < 650V | 583 V |
| 1000 V | 1000V < Display < 1300V | 1134 V |

2. Measurement of Nominal Test Current :

| Sr. No. | Rated Test Voltage | Nominal Load (kΩ) | Criteria for Acceptance | Test Current reading |
|------------|-----------------------|----------------------|----------------------------|----------------------|
| 1 | 50 V | 50 | Nominal Current > 1 mA | 1.044 mA |
| 2 | 100 V | 100 | | 1.104 mA |
| 3 | 250 V | 250 | | 1.102 mA |
| 4 | 500 V | 500 | | 1.100 mA |
| 5 | 1000 V | 1000 | | 1.097 mA |

3. Insulation Resistance Accuracy Test :

| Sr. No. | Rated Test Voltage | Standard Resistance | Observed Meter Reading | Allowed Reading | |
|------------|-----------------------|------------------------|---------------------------|-----------------|---------|
| | | | | min | max |
| 1 | 1000 V | 0.10 MΩ | 0.10 MΩ | 0.08 MΩ | 0.12 MΩ |
| 2 | | 1 MΩ | 0.97 MΩ | 0.95 MΩ | 1.05 MΩ |
| 3 | | 10 MΩ | 10.2 MΩ | 9.30 MΩ | 10.7 MΩ |
| 4 | | 500 MΩ | 471 MΩ | 350 MΩ | 650 MΩ |
| 5 | | 900 MΩ | 874 MΩ | 630 MΩ | 1170 MΩ |
| 6 | | 1 GΩ | 950 MΩ | 700 MΩ | 1.30 GΩ |
| 7 | | 2 GΩ | 1.79 GΩ | 1.40 GΩ | 2.60 GΩ |

Tested by : ASB

Date of putting into service(to be filled by Customer): _____

Next Calibration Due (Add recommended calibration interval): _____

Note: Reference condition as per operating instructions. Calibration is valid for 1 Year from the date of putting into service, Recommended Calibration interval is 1 year.

*This is Auto generated test certificate and do not require signature