II. Technical data

Properties expressed in numerical values with tolerances stated are guaranteed by the factory.
Numerical values without tolerances serve only for information and represent the properties of an average instrument.

A. MEASURING RANGE

1. Direct voltages

Measuring range

– 1 µV upto 1000 V divided in 6 ranges

Ranges	Resolution
20 mV	1 µV
200 mV	10 µV
2 V	100 µV
20 V	1 mV
200 V	10 mV
1000 V	100 mV

Commutation point

– At the end of each representation unit

Input impedance

– Range 20 mV > 1 GΩ//500 pF
– Range 200 mV, 2 V and 20 V > 10 GΩ//500 pF
– Range 200 V and 1000 V 10 MΩ (±1 %)//500 pF
– Input impedance constant during conversion cycle
– Apparatus non-operative > 10 GΩ
– No kick back from the input

Impedance: Low-Guard – 10 GΩ//700 pF
Guard-Ground – 50 GΩ//1.5 nF
Low-Ground – 60 GΩ//700 pF

Input terminals

– Asymetrical
– Floating with respect to ground
– Guarded

Accuracy

– Operating error:
Ranges 200 mV...1000 V: ±0.03 % of reading, ±0.03 % of range
Range 20 mV : ±0.03 % of reading, ±0.08 % of range
– Intrinsic error : ±0.005 % of reading, ±0.005 % of range
– Temperature coefficient : (±0.001 % of reading, ±0.001 % of range) /°C ±0.5 µV/°C
– Zeroing: 20-turn potentiometer accessible after removal of the case

Operating conditions

– According to Usage Group I, IEC359
– Temperature:
– Ambient temperature (reference value) 23 °C ± 1 °C
– Rated range of use 0 ... 55 °C
– Limit range of storage and transport –40 ... +70 °C
– Relative humidity:
– Reference range 47 ... 75 %
– Rated range of use 20 ... 80 % excluding condensation