

ETHOS 8300 SPECIFICATION

Accuracy \pm (a% of reading + b digits) calibration per year

Working conditions: Temperature: $23\pm 5^{\circ}\text{C}$. Humidity: 45-75%RH

Insulation Resistance Measurement

Rated voltage	250V	500V	1000V
Measurement voltage	0.00M Ω -5.5G Ω	0.00M Ω -5.5G Ω	0.00M Ω -5.5G Ω
Open circuit voltage	DC 250V + 10%	DC 250V + 10%	DC 250V + 10%
Rated current	Under 250K Ω 1.00mA -1.10mA	Under 500K Ω 1.00mA -1.10mA	Under 1M Ω 1.00mA -1.10mA
Shorted current	Approx. 2mA		
Accuracy range	0.00M Ω -99.9M Ω : $\pm(3\%+5)$ 100M Ω -5.5G Ω : $\pm(5\%+5)$		

Polarisation Index/Dielectric Absorption Ratio Measurement

PI Measurement	10min insulation resistance/1min insulation resistance			
PI Value	Greater than or equal to 4	4-2	2.0-1.0	Less or equal to 1.0
Criterion	Best	Good	Warning	Bad
Dar Measurement	1min insulation resistance/30s Insulation resistance			
Dar Measurement	1min insulation resistance/15s Insulation resistance			
Dar Value	Greater than or equal to 1.4	1.25-1.0	Less than or equal to 1.0	
Criterion	Best	Good	Bad	

ETHOS
Test Instruments

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Low Resistance Measurement

Open Circuit Voltage	Approx. 5.0V
Measurement Range	0.00-200Ω
Resolution	0.01Ω
Accuracy	± (2%+3)

Voltage Measurement

	AC Voltage
Measurement Range	30-750V (50/60HZ)
Resolution	1V
Accuracy	± (2%+3)

- Display: LCD, maximum reading is 1999
- Low battery indication
- Overload indication >5.5GΩ shows under insulation resistance measurement
- Automatic range
- Unit display: display the unit and function simultaneously
- Automatic voltage release
- Backlight
- Red warning light
- Work condition: 0°C-40°C/ relative humidity is 85% or less
- Storage condition: -20°C-60°C/relative humidity is 90% or less
- Dimensions: 150mm(L)x100mm(W)x71mm(D)
- Current consumption: about 200mA (under max 2500V output) (about 10mA under normal conditions)
- Weight: 0.7Kg (including batteries)
- Power: 6 x 1.5V (AA) Alkaline batteries
- Safety compliances: overvoltage CATIII 600V, Pollution degree 2 as per IEC61010



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