

ETHOS 4164/4165

SPECIFICATION

Voltage Test

Voltage Range	12-690V AC/DC
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LED (4164/4165)

Nominal Voltage	Europe 12/24/50/120/230/400/690V
Tolerance (Threshold Voltage)	Light On At More Than 7±5V (12V LED) 18±5V (24V LED) 37.5±5V (50V LED) 75%±5% of nominal voltage (120/230/400/690V LED)
Response Time	<0.5s at 100% of each Nominal voltage

LCD (Only 4165)

Range/Resolution (Auto Range)	7-690V/1V
Accuracy (23±5°C)	±(3%+3) OR 5V
Overrange Indication	All voltage LED light up
Response Time	< 2s at 90% of each voltage
Peak Current Is	<3.5mA (at 690V)
Internal Battery Consumption	Approx. 33mA (Battery 3V, measuring 690V AC)

High Voltage Indication

Voltage Range	100-690 V AC
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ETHOS
Test Instruments

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Phase Rotation Test

System	Three phase 4 wire system AC 50/60Hz
Phase Range	120±5 degree

Continuity Test

Detection Range	0-1MΩ
Test Current	Approx. 1.5uA (Battery 3V, 0Ω)
Internal Battery Consumption	Approx 30mA (Battery 3V, 0Ω)

Reference Condition

Battery	3V(IEC LR03 1.5V X 2)
Temperature	-10 -55°C operation -20-60°C storage No condensation
Humidity	Max 85% RH
Used Location	Altitude up to 2000m

Safety

Standard Category	IEC 61010-1 GS: CAT III 690V ETL: CAT IV 600V
Pollution Degree	2
IP Code	IP64



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