Designed to test the dielectric strength of electrical insulation to relevant international electrical safety standards, directives and wiring regulations, the E3640 Flash Tester from Edgcumbe Instruments utilises solid state electronics throughout for precision and reliability

At the heart of the portable tester is an electronic voltage transformer which applies precise stepless-controlled voltages across the 0-2 and 0-4kV AC ranges, which are switch selectable to avoid inconvenient probe changes.

For international compatibility the tester can be operated form either 115V or 230V 50/60Hz supplies.

Product Features

Solid State Electronics including electronic voltage transformer with ranges to 4kV a.c.

Hold feature on actual breakdown voltage and leakage current readings

Safety zero interlock on output control

Breakdown, trip, and burn modes

Can be operated from either 115V or 230V 50/60Hz supplies

Pistol grip safety probe

E3640

flash tester

product safety

E3640
flash tester

Metrohm®

Model Range : Model Description

E3640 4kv flash tester for breakdown, leakage current and burn test. 16th edition specification.

Electrical

Power Requirements Selectable:	230V ±15% 50/60Hz 115V ±15% 50/60Hz 25VA nominal
Fuses:	230V - 5 X 20mm 0.25A HBC type F 115V - 5 X 20mm 0.5A HBC type F
Output Voltage Range:	0-2.2, 0-4.2kV 50/60Hz (via 31/2 digit LCD in 10V steps)
Output Short Circuit Current:	5mA 50/60Hz max
Trip Level Range:	0 to 3mA 50/60Hz
Trip Level Accuracy:	±5% of full range
Trip Response:	Will trip for fault duration >5mS and not for <100µS

Leakage Current Display

Range:	0 to 20mA 50/60Hz in steps of 10µA
Accuracy:	±2% of reading ±1 digit
Breakdown Response:	Will trip for fast transients of 30µS and above

Indicators

kV ON:	A red lamp which indicates that the high, output voltage circuit is energised
FAIL:	A red lamp which indicates the trip has triggered
Audible Fail:	A buzzer sounds and indicates that the trip has triggered

Controls

Power Switch type:	Double pole ON/OFF rocker type
Mode Select:	Three position rotary switch selects the breakdown, trip or burn mode of operation
Trip Level:	Single turn trip level setting potentiometer
Voltage Select:	Two position rotary switch which selects 2 or 4kV range
Voltage Control:	Single-turn potentiometer to facilitate accurate setting of the output voltage

Connectors

Power Inlet:	A module which combines a filter with an IEC 320 inlet with an ON/OFF double pole rocker .
Low/Earth Terminal:	Large yellow/green butterfly binding post
High Voltage Outlet:	Red custom designed deep

Leads/Probes

Power Lead(Cord):	1.5m long terminated at one endby an IEC 320 connector and at the other by an appropriate power plug
Earth Lead:	A green heavy duty flexible lead with a side entry spade terminal at one end and a fixed shroudedcrocodile clip at the other
High Voltage probes:	A custom moulded pistol shaped probe with a trigger operated retractable “hot” end sleeve. An integral red high voltage lead emerges from the bottom of the hand grip and is terminated with a specially designed high voltage safety connector
Safety:	To IEC 1010
EMC:	To BS EN 50081-1 and BS EN 50082-2
Flash Test:	To IEC 1010

Mechanical

	330mm 263mm
Length:	144mm
Width:	4kg
Depth:	ABS (yellow)
Weight (with battery)	To IEC 68-2-29
Case Material:	To IEC 1010, Clause 8.2
Bump:	To IEC 1010, Clause 8.3
Impact:	To IEC 1010, Clause 8.4
Vibration:	
Drop:	

Environmental

	-15°C to +55°C -25°C to +65°C
Operational Temp:	80% RH at 40°C
Storage Temp:	93% RH at 40°C
Operating Humidity:	To IEC 68-2-1
Storage Humidity:	To IEC 68-2-2
Cold Temperature:	To IEC 68-2-3
Dry Heat:	
Damp Heat:	

Martindale Electric Company Ltd policy is one of continuous development and hence we reserve the right to change specifications/design without prior notice.

CE

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installation tester