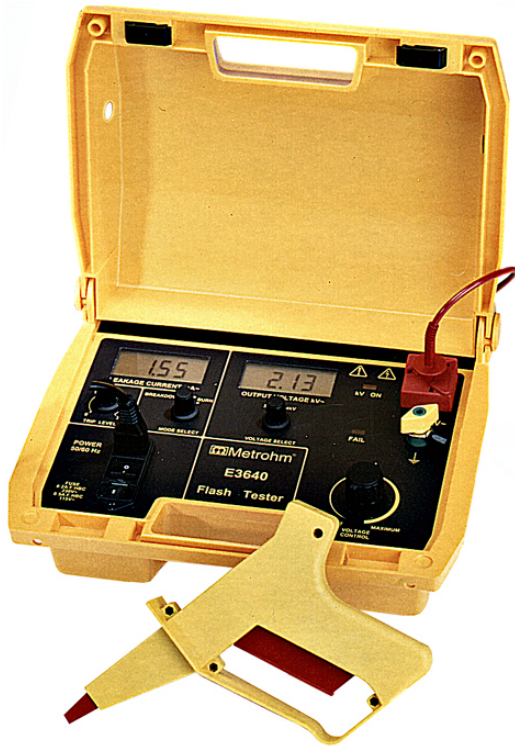


E3640

Flash Tester



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 from 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

115V or 230V 50/60Hz operation

Pistol grip safety probe

Product Specification

MODEL RANGE: MODEL DESCRIPTION

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

ELECTRICAL

Power Requirements: 230V \pm 15% 50/60Hz
selectable
115V \pm 15% 50/60Hz
25VA nominal

Fuses:
type F 230V - 5 X 20mm 0.25A HBC
type F 115V - 5 X 20mm 0.5A HBC

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: \pm 5% of full range
Trip Response: Will trip for fault duration >5mS
and not for <100 μ S

Leakage Current Display
Range: 0 to 20mA 50/60Hz in
steps of 10 μ A

Accuracy: \pm 2% of reading \pm 1 digit
Breakdown Response: Will trip for fast transients of
30 μ S and above

Indicators
kV ON: A red lamp which indicates that
the high, output voltage circuit is
energised

FAIL:
trip A red lamp which indicates the
has triggered

Audible Fail: A buzzer sounds and indicates
that the trip has triggered

Controls
Power Switch: 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
recessed outlet with integral cover/
test lead retaining mechanism

Leads/Probes
Power Lead (cord): 1.5m long terminated at one end
by 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 shrouded
crocodile 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

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

ENVIRONMENTAL

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



Edgcumbe Instruments Limited policy is one of continuous development and hence we reserve the right to change specifications/design without prior notice.

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