

LLT live line tester



The Metrohm Live Line Tester utilises a long established technique to detect and measure high voltages and to perform phasing tests.

The tester incorporates modern, high quality fibreglass rods and polycarbonate mouldings to give a tough, compact construction.

Units are available for high voltage systems from 3.3kV to 33kV, 50/60 Hz and a wide range of accessories are available to facilitate their use on overhead lines, in switchgear and in substations.

Product Features

Dual purpose: H.V. detection and phase comparison

Self powered operation

Positive phasing test

High voltage measurement

Robust construction

High quality fibreglass rod

Suitable for indoor and outdoor use

Proving and repeater units

Easily dismantled for storage

D.C. version available

Full range of accessories

High immunity to interference fields

Product Specification

MODEL DESCRIPTION

LLT 1 full kit - 3.3kV, 6.6kV, 11kV, 13.8kV
 LLT 2 full kit - 33kV

FULL KIT INCLUDES:

1 x tester, 1 x phasing rod, 2 x std. bent end adaptors, 2 x extension rods, 2 x head line adaptors, 1 x proving unit, 1 x carry case, all leads, cleaning kit and operating instructions.

ELECTRICAL Tester

	System Voltage				
	3.3kV	6.6kV	11kV	13.8kV	33kV
Resistor Chain Value:	22.5M Ω	52.5M Ω	75M Ω	100M Ω	225M Ω ±5%
Measuring Range:	5kV	10kV	15kV	20kV	40kV
Accuracy:	±5% of FSD				
Movement:	100 μ A taut band suspension				

Phasing Rod

Resistor Chain Value: As for tester

Repeater Unit

Measuring Range:} As for tester
 Accuracy:}
 Movement:}

Proving Unit

Battery: 8 X 1.5V IEC R20 or equivalent
 Battery Consumption: <200mA on high voltage generation with 12V supply
 High Voltage Output: 3 to 5kV D.C. at 100 μ A max. current
 Low Voltage A.C. source: Variable 0 to 200 μ A at 50Hz nominal with a short
 circuit current of <1mA

MECHANICAL Tester

	System Voltage	
	3.3kV to 13.8kV	33kV
Length:	1025mm	1200mm
Weight:	2000gms	2300gms
Material:	Moulded polycarbonate, resin bonded fibreglass, aluminium/stainless steel and PVC	

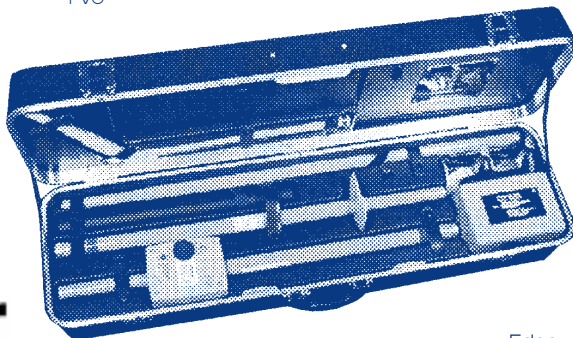
Meter Housing Adjustment: aluminium/stainless steel and PVC 340° stop to stop

Phasing Rod

	System Voltage	
	3.3kV to 13.8kV	33kV
Length:	1025mm	1200mm
Weight:	1400gms	1600gms
Material:	Moulded polycarbonate, resin bonded fibreglass, aluminium/stainless steel and PVC	

Extension Rod

	System Voltage	
	3.3kV to 13.8kV	33kV
Length:	907mm	907mm
Weight:	650gms	700gms
Material:	Resin bonded fibreglass, aluminium/stainless steel and PVC	



LLT FULL TEST KIT PACKAGE

Hot Rod Adapter

Length: 300mm
 Weight: 1350gms
 Material: Resin bonded fibreglass, aluminium/stainless steel and PVC

Bent End Adapter (standard)

Length: 675mm
 Weight: 270gms
 Material: Moulded polypropylene and stainless steel (short)
 Length: 480mm
 Weight: 200gms
 Material: Moulded polypropylene and stainless steel

Overhead Line Adapter

Height: 90mm
 Weight: 100gms
 Material: Aluminium/Stainless Steel

Repeater And Proving Units

Case Dimensions: 185 X 145 X 120mm
 Case Material: Moulded ABS
 Vibration Resistance: To IEC 68-2-1
 Drop Resistance: To IEC 68-2-2
 Shock Resistance: To IEC 1243, Part 1, clause 6.4.5

ENVIRONMENTAL

Operating Temperature: -25°C to +50°C
 Wet Testing: To IEC 1243, Part 1
 Cold Temperature: To IEC 68-2-1
 Dry Heat: To IEC 68-2-2
 Damp Heat: To IEC 68-2-3

LIST OF EQUIPMENT

PRODUCT	PART NO.				
	up to 3.3kV	up to 6.6kV	up to 11kV	up to 13.8kV	up to 33kV
Tester c/w earth cord	F0262B	F0264B	F0256B	F0260B	F0257B
Phasing rod c/w phasing lead	F0263B	F0265B	F0258B	F0261B	F0259B
Bent End Adaptor	DFH502B	DFH502B	DFH502B	DFH502B	DFH502B
Extension Rod	DFH5002	DFH5002	DFH5002	DFH5002	DFH5026
Bowthorpe rod adaptor c/w lead	DFK0112	DFK0112	DFK0112	DFK0112	DFK0112
Overhead line adaptor	DFK5000	DFK5000	DFK5000	DFK5000	DFK5000
Proving unit c/w leads	FOP01B	FOP01B	FOP01B	FOP01B	FOP01B
Repeater unit	FOR05B/2	FOR04B/2	FOR01B/2	FOR03B/2	FOR02B/2
Carry case 1	CMP5009	CMP5009	CMP5009	CMP5009	CMP5009
Carry case 2	CMP5008	CMP5008	CMP5008	CMP5008	CMP5008
Carry bag	CMP5010	CMP5010	CMP5010	CMP5010	CMP5023

* NOT supplied as standard with each kit.

Edgcombe Instruments Limited policy is one of continuous development and hence we reserve the right to change specifications/design without prior notice. DUK0007 Issue 0598

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