SHORT FORM CATALOGUE

KILOVOLT METER SYSTEM, HIGH VOLTAGE D.C POWER SUPPLIES, HIGH VOLTAGE CABLE TEST AND FAULT LOCATING EQUIPMENT, CABLE TEST VANS, CURRENT INJECTION TEST SETS, HIGH VOLTAGE A.C. TEST SETS.

Detailed illustrated pamphlets or technical specifications of all the test instruments listed are available and will be supplied on request.

CONSOLE AND FIXED HIGH VOLTAGE AC TEST SETS

Console Type AC test Sets (On Castors)



Fixed Type AC Test Sets

Available at various voltages, these include an HV Transformer together with a Transformer Control Unit. Direct measurements of the output voltage is provided by resin cast HV resistors.

MANUAL CONTROL UNITS TCU2, TCU3, TCU4 AND TCU5 RATED: 1kV, 4kV, 9kVA and 15 kVA.

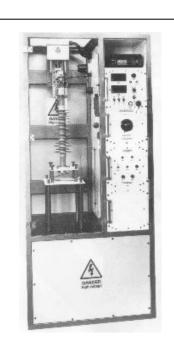
MOTORISED REGULATOR CONTROL UNITS TCU6, TCU7, TCU8 AND TCU9 rated: 25 kVA, 20 kVA, 15 kVA and 10 kVA.

ELECTRONICALLY PROGRAMMED CONTROL UNITS
TCU2/MEA to TCU5/MEA rated up to 15 kVA

MICROPROCESSOR PROGRAMMED CONTROL UNITS TCU2/MEP to TCU5/MEP rated up to 15 kVA

Transformers

High Voltage Transformers are offered in standard E.H.T. voltages of 10, 20, 30, 50 & 100 kV.a.c., having an input voltage of 240 kV.a.c. single phase. Other voltages are available to special order.



Type TCU2/S700 with HV Test Cage

HIGH VOLTAGE CONNECTORS

Panel Mounted Sockets All available at Fee Plugs ratings of:

Free Sockets 30, 60, 90 & 120 kV.d.c Coupler Sockets

MEGOHMMETERS

IRT High Power 500 Volt megohmmeter 20 kilohms to 10,000 Megohms

0 – 500 Volts, Linear Ohms scale.

IRT 5000R 5 kV High Voltage megohmmeter

200 kilohms to 100,000 Megohms

0 – 5000 Volts, Linear Ohms scale.

HIGH VOLTAGE SWITCHES

HVS 10S Solenoid Operated Switch Standard Banks up to kV d.c up to 7 poles.

HVS 30SL Solenoid Operated Switch

HVS 30SL Solenoid Operated Switch up to 30 kV d.c.
HVS 60SL Solenoid Operated Switch

HVS 60SL Solenoid Operated Switch up to 60kV d.c.

HVS 100SL Solenoid Operated Switch up to 100 kV d.c

HVS 40MR 6-Way Manual Rotary Switch up to 40 kV d.c. DES 40 Combined Dump & Earth

Switch up to 40 kV d.c.

Combined Dump & Earth
Switch (Hydraulic delay)
Discharge resistors

Switch available
Rack Mounting
Instrument.

3-pole, 6-way

SPECIAL TEST INSTRUMENTS

PCI 3000 D.C D.C. Current Injection Test Set 250 Amps and 750 Amps at 3 kVA.

SCI 503 D.C. D.C. Secondary Injection Test Set, 3 ranges to 60 Amps.

ATC 1000 Automatic Tracking comparator, C.T.I. measured up to 1000 V.a.c., BS 5901. VGPS 1 1.5 Ky/3 kV Unit for Pilot Wire burning and Sheath fault Location.

RTS 4 Current/Voltage Source, Designed for testing Automatic Voltage Control Relays. HV D.C. Test Sets Various models, designed for special applications. Details on request.

HIGH VOLTAGE CABLE TEST AND FAULT LOCATING EQUIPMENT



PORTABLE TEST INSTRUMENTS

11Kv 'District' Portable Test Sets

RX40/5PL 40 kVdc pressure test Set

+ or - 40 kV at 4 mA, + or - 20 kV at 8mA, + and - 20 kV at 4 mA between phase

RX10/14P High Power Burnout Test Set

10kV, 3kV, 1000/300 V ranges at 1.4/4.0 kVA.

CDU 12SP Shockwave Fault Locator

6 kV and 12 kV 288 joule (Ws) Surge Generator.

Portable/ Transportable test Sets

RX30/4P 30kV Pressure Test Set

+ and - 30 kV at 4 mA, maximum current 10 mA,

line to earth and between phase.

RX80/4P 80 kV Pressure Test Set (2 units) Up to 80 kV at 4 mA, maximum current 10 mA.

RX16/40 High Power Burnout test Set (2 units)

7 ranges from 16 kVdc to 150 Vac,

3.3/6.6 kVA, Max. Current 40 Amps.

CDU 24T Shockwave Fault Locator

576 joules (Ws) Surge Generator output at 6 kV, 12 kV and 24 kV.

TEST VAN INSTRUMENTS

11 kV 'DISTRICT' Test Van Equipment

RX30030/15 Pressure and Burnout test Set

+ 30 kV at 10mA, and -15kV at 50Ma.

CDU 12SR Shockwave Fault Locator and Burnout Test Set

576 JOULES (Ws) Surge Generator at 6 kV and 12 kV.

RX9/32 High Power Burnout test set

9Kv, 4.5 kV, 500/250V, ranges at 4.5/9.0 kVA.

SD 1A Shockwave Detector

Dual receiver with Acoustic & Magnetic Probes.

33 kV 'Area/Group' Test van Equipment

RX80/20 Pressure and Burnout test Set

+ 80 kV at 20 mA, - 80 kV at 20 mA. + 40 kV at 40 mA, - 40 kV at 40 mA.

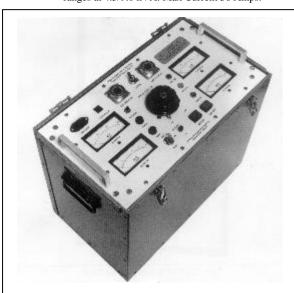
+ 40 kV and - 40 kV at 20 mA between phase.

CDU 24C Shockwave Fault Locator

576 joules (Ws) Surge generator 3 ranges 24kV, 12 kV, and 6kV.

RX20/36 High Power Burnout Test Set

20 kV, 10 kV, 5 kV, 750V, and 250V, ranges at 4.5/9.0 kVA. Max Current 36 Amps.



Type RX30

CABLE TEST VANS

STANDARD TEST VANS

'District' test Van (30 kV)

Test Van, available in panel van or chassis/cab with box body form, Incorporating 11 kV 'District' Test Van equipment above. All cables, drums, and mains distribution panel TV50 fitted. Alternator, Prelocator, Twist-field locator, bench, and sink unit included. Air-conditioning and 4 wheel drive available on export version.

'Area/Group' Test Van (80 kV)

Test Van, available in panel van or chassis/cab with box body form, incorporating 33 kV 'Area/Group' Test Van equipment above. All auxiliary items as 'District' Test Van, but featuring in addition a complete cable switching facility up to 40 kV for rapid fault location.

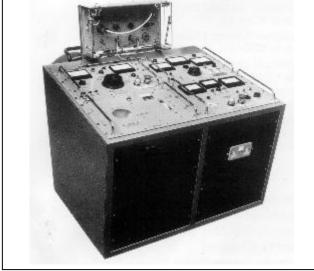
40 kV Test Van Module

Pre-assembled module incorporating the 'District' Portable test instruments with HV Patch panel and TV30 mains distribution panel. Cables included. Will 'Folk-Lift into Transit size panel van.

TEST VAN AUXILIARY EQUIPMENT

TV30 30 Amps Mains Distribution Panel TV50 50 Amps Mains/Alternator Distribution Panel

TV80 80 Amps Mains/Alternator Distribution Panel HVS40/3 3-pole 6 way 40 kV switch for use in Test Vans



CURRENT INJECTION TEST SETS

SECONDARY INJECTION TEST SETS

The Secondary Current Injection Test Sets are all fitted with low flux density transformers for minimum waveform distortion. They are mounted in robust wooden or aluminium instrument cases with carrying handles and lids.

STANDARD DESIGN with built-in timer

SCI 404

4 Output Ranges plus Voltage Output rated current 50 Amps, max. 100 Amps.

SCI 243

3 Output Ranges plus Voltage Output rated current 30 Amps, max. 60 Amps

SCI 303

4 Output Ranges inc. AC/DC Voltage Output rated current 30 Amps, max. 60 Amps

SCI 752

60 Amp Output Range plus Voltage Output both outputs AC and DC

ECONOMY DESIGN external timer available

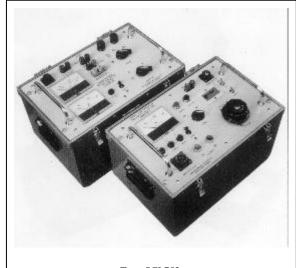
SCI 303E 4 Output Ranges inc. voltage Output Rated current 30 Amps, max. 60 Amps SCI 151 1 Output Range 0 – 10 Amps intermittent.



TRANSPORTABLE HIGH VOLTAGE AC TEST SETS

The AC Test Sets listed are some of our current standard sets. They all include top quality transformers and feature direct measurement of the output voltage using resin cast resistive dividers. Good instrumentation and protection circuits are fitted. The current meter measures the output into the HV load. The test sets will trip when the output exceeds the rated values.

PFT 4000	Portable Flash Tester	4 kV 10/20 mA
BFT 4000	Bench AC Test Set	4 kV 20/40 mA
PFT 6000	Portable Flash Tester	6 kV 20/40 mA
BFT 6000	Bench AC Test Set	6 kV 100/200mA
RX10/10ACP	Portable Flash Tester	10 kV 10/20 mA
RFT 5000	Bench AC Test Set	5 kV 200/250mA
RX15/30ACP	Portable AC Test Set	15 kV 13/50mA
RX30/20ACP	Portable AC Test Set	30 kV 20/40mA
RX50/25ACP	Transportable AC Test Set	50 kV 25/50 mA



Type SCI 752

PRIMARY INJECTION TEST SETS

The Primary Current Injection Test Sets are all fitted with low flux density transformers for minimum waveform distortion. They are mounted in robust steel housing mounted on castors. A seconds timer is built into all models.

PCI 2000 100 Amps and 500 Amps at 2 kVA

25% duty to 1000 Amps

PCI 4000 500 Amps and 1000 Amps at 4 kVA

25% duty to 2000 Amps

PCI 6000 750 Amps and 1500 Amps at 6 kVA

25% duty to 3000 Amps

PCI 8000 500, 1000 & 2000 Amps at 8 kVA

25% duty to 4000 Amps

PCI 6000/3 3-phase outputs 100 Amps and 500 Amps at 6 kVA –

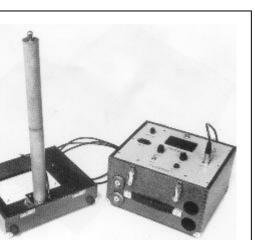
25% duty to 1000 Amps/phase

PORTABLE SETS WITH SEPARATE CONTROL AND LOADING UNITS ARE AVAILABLE SEE'ADDITIONS' SHEET



Type RX10/10ACP

KILOVOLT METER SYSTEMS



Type RX100/GD/AD Portable

A system of high voltage measurement using matched sets of resin cast, hermetically sealed, resister columns. All types of measurement available in a variety of configurations for differing

Standard columns of 30, 40 & 100 kV giving various ranges up to maximum of 1000 kV. Lower voltage columns are available.

KILOVOLT METERS – MEAN READING

AC & DC or DC only. Analogue Meter. Type RX100/FS/AC Field Service

Type RX100/ZB/AC Compact Portable maximum 60 kV Type RX100/GA/AC 120 kV Portable maximum Type RX100/ZB/AC Semi-portable maximum 240 kV Type RX100/Z/AC Fixed 1000 kV maximum

maximum

30 kV

KILOVOLT METERS - PEAK AND MEAN READING

AC &DC, Peak and Mean, Dual Analogue Meters.

240 kV Type RX100/ZB/PMUA Semi-Portable maximum Type RX100/Z/PMUA Fixed 1000 kV maximum

KILOVOLT METERS - DIGITAL

AC &DC, Mean reading, Digital Display. 60 kV Type RX100/ZBD/AC Compact Portable maximum

Type RX100/GD/AC Portable maximum 120 kV Type RX100/ZBD/AC Semi-portable 240 kV maximum Type RX100/ZD/AC 1000 kV Fixed maximum

AC & DC, Peak and Mean reading, Digital Display.

Type RX100/ZB/PMUD 240 kV Semi-portable maximum Type RX100/Z/PMUD 1000 kV Fixed maximum

HIGH VOLTAGE DC POWER SUPPLIES

All D.C. Power Supplies are 50 Hz derived, Smoothed D.C. output, and use quality components for high reliability. Comprehensive metering, protection, and alarm signalling is included. The Series 90s are stabilised supplies.

SERIES 60E			SERIES 90S				SERIES	120			
RX30/2RE	30 kV	2mA	RX15/6RS	15 kV	6mA		RX15/8R		15 kV	8 mA	
RX60/1RE	60 kV	1mA	RX30/3RS	30 kV	36mA		RX30/4R		30 kV	4 mA	
			RX45/2RS	45 kV	2mA		RX45/3R		45 kV	3 mA	
			RX60/1.5RS	60 kV	1.5mA		RX60/2R		60 kV	2 mA	
SERIES 360			SERIES 750			SERIES 2000					
RX15/24R	15 kV	24 mA	RX15/50C 15 kV	50 mA		RX25/80	25 kV	80 mA			
RX30/12R	30 kV	12 mA	RX30/25C 30 kV	25 mA		RX50/40	50 kV	40 mA			
RX45/8R	45 kV	8 mA	RX45/15C45 kV	15 mA		RX75/25	75 kV	25 mA			
			RX60/12C 60 kV	12 mA		RX100/20	100 kV	20 mA			

CUSTOM BUILT TEST EQUIPMENT

The instruments detailed in this pamphlet are standard items in the company's range of products. The company is prepared to design and manufacture equipment to customer's requirements and will be pleased to quote against detailed specifications submitted. Examples of successfully completed projects are: Monitoring System for 11 kV Standby Cable Network, Test Instruments for Geiger Counter Metering And Reactor Core Thermocouples, testing and Measuring facility for AA gun Power Supplies, Insulated Tool Test Equipment, Semi-automatic Capacitor testing Equipment, test Facility for HV Auto-reclosing Switches.

CUSTOM BUILT TEST VEHICLES

The Company is prepared to design and equip Test Vehicles to customers Requirements and will be pleased to quote against detailed specifications Submitted. Examples of successfully completed projects are: Combined Oil test and Workshop Vehicle (Tropical), 100 kV.a.c., 30 kVA, Test Trailer, Test Van for measuring dielectric loss on motors and alternators.

