UNDERGROUND CABLE FAULT LOCATING EQUIPMENTS & SYSTEMS

CBD 7 **Cable Burn Down Equipment**

Description

Cable Burn Down Equipment CBD7 is applied in typical medium and high resistance faults that are beyond the range of applying Pulse Echo equipment for pre-location measurement.

A carbon bridge is produced by burning the cable insulation at fault point, which helps in locating the fault distance easily.

They are also used for conditioning unstable faults such as ingress of moisture. In case of flame proof cables (such as PE/XLPE).

it can be used to dry wet cable faults. It is the most suitable equipment, offering up to 7 kVA energy for above application for any type and grade of HT/LT cable.

Burn down process is controlled by selection of voltage range selection and continuous variation with variac.

Application

It is use to burn down unstable, medium and high resistance faults for to per-location using normal ordinary TDR unit or it can be used to dry wet cable faults in transmission and distribution power cable network.

Features

- Both AC and DC range for burning operation.
- Six selectable ranges for easy operation.
- Burn down medium, high resistance and unstable faults to become in fault condition.
- High current output, suitable for drying long wet cables under controlled condition.
- Maximum burn down voltage of 14 kV DC.
- Maximum burn down current selected range.
- Burn current continuously monitor on analogue moving coil current meter.
- Mains input current circuit protection.
- Automatic discharge facility after switch off or in case of switching off or power failure.
- Emergency switch off facility.
- Fully protected operation with safety interlocks.
- Rugged construction and easy to carry on site.

QUALITY SYSTEM CERTIFICATION DNV·GL ISO 9001:2015

CE

TELEMETRICS

TELEMETRICS EQUIPMENTS PVT. LTD.

Working Principle

Highest voltage range is selected to ignite the fault on cable under test. The range is gradually lowered to get burn down at lowest voltage range a carbon bridge is formed across the fault after burn down.

This helps in using ordinary PE/TDR equipment to get the fault distance.

Carbon Bridge is blown out by high energy surges during pin-pointing. AC voltage ranges make it possible to carry out burning on LT mains supply cables.

For drying wet section of a cable, the voltage has to be gradually increased to get voltage break down. The output can be controlled till there is no voltage breakdown.

Function

It is use for burn down the high resistance or intermittent fault in power cables. It is basically a variable high voltage and high current power supply, have AC and DC ranges, which is connected across the fault through a high voltage selection solenoid. The output voltage is controlled through a Variac from zero to maximum.

Standard Accessories

- HV Output Cable 10 sq mm single core screen cable 5 meter length with heavy duty clamp.
- Mains supply cord 3 meter length.
- Yellow / Green 10 sq mm earthing cable 5 meter length

Standard Warranty	**One Year**
Other models available	**Cable Burn Down Equipment CBD 2**

Specifications

Power Supply	230V AC ± 10%, 50 Hz, Single phase
Power Consumption	7 kVA Max.
Working Voltage Ranges	AC & DC
Output Voltage Ranges	60 V AC - 110 Amp 220 V AC - 30 Amp 1.2 kV DC - 6 Amp 4 kV DC - 1.5 Amp 8 kV DC - 0.8 Amp 14 kV DC - 0.5 Amp
Overload Protection	Magnetic shunt protection to limit input current for mains HV transformer Mains input circuit breaker Over temperature protection
Safety Protections	Variac zero inter-lock Output cable plug inter-lock
Indication	ON / OFF indication Over heat LED indication Burn current on moving coil analog current meter
Cooling System	Air cooled
Earth Discharge	Soft and automatic discharge
Working Temp.	0 Deg C ~ 55 Deg C
Storage Temp.	- 5 Deg C ~ 60 Deg C
Dimensions	540 (L)+Handle110 x 435(W) x 600 (H)mm +Handle 55mm + Wheel 100mm
Weight	118 Kg Approx

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