KUSAM-MECO®
An ISO 9001:2015 Company

CABLE FAULT PRE-LOCATOR
MODEL- KM-CFPL- 620

THINK SAFETY
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UNDERGROUND CABLE FAULT PRE LOCATING EQUIPMENT

"KUSAM-MECO" underground Cable Fault Pre-locator is an automatic Cable Fault Locator which adopts ARM, FPGA & Dot Matrix Color LCD display Technology. This tester combines pulse reflecting technology (TDR) for measuring the exact fault location such as broken line, cross faults, earthing.



Preliminary Data

It is a microprocessor based fault locator with a user friendly menu. It is easy to operate. It tests almost all telecom & signal cables. It has an English menu which is easy to understand & use. With Megameter & Ohmmeter it enables to test insulation resistance & loop resistance. It has USB Port for uploading test data to computer.

FEATURES :

- Small size, light weight and ABS plastic housing which is ergonomically designed for easy use by user.
- Menu driven simple operation.
- Measurement maximum 16 km in selectable ranges.
- Tests any type of copper telecom and signal cables.
- Range, VOP and Gain are selected automatically.
- Color LCD Display (480 x 280 dots).
- Automatic testing mode.
- Pulse reflection (TDR) for open, short.
- With mega meter it enables to test insulation resistance and loop resistance.
- Six function keys and simple operation.
- Manual testing function is also available.
- With 4 GB USB Pen drive, it is easy to upload memory data to computer.
- Rechargeable lithium battery with intelligent charger
- Continued 8 hours operating time on internal battery.
- Rugged construction and easy to carry on site.

GENERAL SPECIFICATIONS :

- **Display Readout :** Color LCD : 480*280·
- **Continued operating time :** 8 hours
- **Charging time :** 3 hours
- **Power Supply :** 7.4V Rechargeable Li-ion battery. Charging voltage 230V +/-10%, 50Hz, single phase.
- **Storage Temperature :** -15°C ~ + 55°C; RH <85%RH.
- **Working Temperature :** -15°C ~ + 55°C; RH <85%RH.
- **Dimension :** 212 (L) × 170 (W) × 90 (H) mm (approx.)
- **Weight :** 1.20 Kg Net (approx.)

Note: All Specification are Subject to change without prior notice.

ELECTRICAL SPECIFICATIONS :

- **Measurement Mode:** TDR (Time Domain Reflectometer)

TDR Mode

- **Fault Distance Range :** 16 km (240m, 480m, 1000m, 2000m,4000m,8000m, 16000m)
- **Fault Measurement Accuracy :** 1 meter
- **Cable Constant (VOP) range :** 100 - 300
- **Sampling Speed :** 100 MHZ
- **Testing accuracy :** +/- 1% × cable length
- **Auto Measurement dead zone :** 0 Meter
- **Measurement dead zone :** 0 Meter
- **Pulse Width :** 40ns---10us
- **Pulse Waveform :** Two polarity pulse
- **Pulse Amplitude :** 0 - 30V adjustment adaptive
- **Impedance matching :** Automatic
- **Output Impedance :** 25 - 120 adaptive
- **Gain adjustment:** Automatic and Manual
- **Gain Range Control:** 0 - 9
- **Resolution :** 1 Meter
- **Memory Location :** U - disk
- **Serial port for PC / Printer :** USB

OPERATING PRINCIPLE :

TDR Mode

A narrow electromagnetic frequency pulse of 40ns-10us with a fast rise time is sent on the cable that reflects back from the fault point /far end where the impedance was mismatched or changed. The velocity of propagation (VOP) for each cable depending on the cable dimension and material is set and the distance to the fault is then computed automatically and displayed in meter on LCD screen.

- **ACCESSORIES :** Carrying case, Re-chargeable battery charger / adapter , Connecting test cables, Software CD 4GB Pen Drive and User Manual.

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