CLM1 Cable Length Meter

from NG Systems

For use with RG59 (75Ω) and RG58 (50Ω) or equivalent coaxial cable, this meter provides a direct readout in metres of the length of an unterminated run of coaxial cable with a resolution of 2-3 metres. A single range of 2.5 to 400 metres on a 4 digit LCD display is provided with automatic indication of open circuit and short circuit conductors. By this means, the location of a short circuit or open circuit in cable runs of up to 800 metres may be found.

Cable length is measured by injecting a high speed pulse into one end of the cable and timing the return of any reflected signal (time domain reflectometer). This reflection occurs only when the cable is *not* correctly terminated and so will produce correct results whenever the cable is either completely open circuit or short circuit.

- Location of short or open circuits in damaged cable runs up to 800 metres.
  Take the guesswork out of searching for cable faults. By applying the CLM1 to one end of a faulty cable, the distance between the instrument and a short circuit (L) or open circuit (H) fault is displayed in metres.
- Identification of unterminated cables. *Discriminate between several unlabeled cable ends by measuring their lengths.*
- Location of faulty connector in BNC-BNC leads. *Save time and money by identifying the BNC plug causing the open or short circuit in flyleads greater than 2.5 metres.*
- Measurement of remaining cable on partially used drums. *Know in advance whether there is a sufficient cable left on partially used drums to suit the job.*

(VLM1 illustrated)

Specification

Measurement range	2.5 – 400 metres
Measurement method	TDR
Accuracy	± 1.5 metres
Resolution	2.5 metres
Power source	PP3 Alkaline battery
Drain	37mA (off load)
Dimensions (overall)	118 x 60 x 29mm
Weight	95g (with battery 140g)
Optional equipment	Leather-board case with belt clip