



SIVA INSTRUMENTS

R-C Unbalance Meter

Model: RCU1



An ISO 9001:2000 COMPANY



We specialise in the design and manufacture of the test and measuring equipments for the cable industry. Knowledge of the needs of our customers has allowed us to develop a range of equipments which has been widely accepted in the industry.

We are constantly putting our efforts to introduce state of the art technology in the field of test and measuring instruments. With these efforts we have developed 'Digital R-C Unbalance Meter' for communication cables. It has been shown that there are some losses resulting from the cable manufacturing process which affects the intelligibility of the telephone circuit. These are caused by the unbalances in the cable pairs which not only affect the uniformity of the line but it also makes the lines susceptible to induction from other sources such as power line harmonics, ground line, voltage noise, etc.

The degree of balance in communication circuit determines how susceptible the circuit will be to induce noise voltages.

This R-C Unbalance Meter will be very useful for direct measurement of capacitance unbalances in the cable pairs. The instrument can measure resistance unbalance also. The pairs can be tested for capacitance and resistance unbalances in different configurations which are selected by a rotary switch. The Unbalance Meter is designed in such a way that it will not be sensitive to the effect of indirect couplings.

SIVA Digital R-C Unbalance Meter Model RCU-1 meets the long felt requirement of telecom cable industry. The instrument conforms to international specifications and yet is priced less than half of comparable instruments available in the international market.

Technical Specification

a) Measurement Parameters	Resistance Unbalance Capacitance Unbalance Pair to pair pair to ground	DR1, DR2, DR3 K1, K2, K3 E1, E2, E3
b) Measuring Ranges	Resistance Unbalances Capacitance Unbalances in two ranges.	-19.99% to +19.99% -1999 to + 1999 pF & -19.99 to + 19.99 nF
c) Indication	3½ Digit Panel Meter with sign	
d) Resolution	Resistance Unbalance Capacitance Unbalance	0.01% 1 pF
e) Test Voltage	Resistance Unbalance Capacitance Unbalance	2 VDC 6 VAC with switchable frequencies 800 Hz & 1 KHz
f) Minimum Loop Resistance	1 Ohm	
g) Selection of Parameters	By means of rotary switch on front panel	
h) Power Supply	230 V ± 15%, 50 Hz (110V, 60Hz on request)	
i) Dimension	435 x 135 x 305 mm	

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