

AX-221N

LCR Meter,
with D-display

It is the time now to accommodate an Individual
engineer with one LCR Meter on each desk.



Measuring range :
L : 0.1 μ H ~ 199.9H
C : 0.1pF ~ 1999 μ F
R : 1m ~ 1999k
D : 0.001 ~ 1.999
L,C,R 3 1/2digit, D 3 1/2digit, LED display
Sampling time : 10 times per second approx.
(Auto range changeover time:1 step 100 milli second)
L,C,R and d, analog voltage output
(full scale DC2V)

THE OUTLINE

The Digital LCR Meter, Model AX-221N offers easy measurement of contact resistance of electric components such as a coil, condenser, resistor, switch, relay etc., of inner resistance of a battery, of junction capacity of semiconductor and of any kind of elements.

Auto range and auto mode functions select automatically an optimum range for the measuring object with unknown value. Also, manual range changeover is possible and thus unnecessary time for range changeover can be eliminated.

The display unit displays LCR value in 3-1/2 digit and in case of the measurement of L or C, the value of D(loss coefficient) is also displayed in 3-1/2 digit.

Analog voltage proportional to the measured value is output, too, for the connection to an analog recorder, analog comparator, etc.

SPECIFICATIONS

Measuring range and Accuracy (at23 \pm 5)

Measuring range and Accuracy (at23 \pm 5)	L	0.1 μ H ~ 199.9H	\pm (0.3 of rdg + 2digit)TYP
	C	0.1pF ~ 1999 μ F	\pm (0.3 of rdg + 2digit)TYP
	R	1m ~ 1999k	\pm (0.3 of rdg + 2digit)TYP
	D	0.001 ~ 1.999	\pm (0.5 of rdg + 2digit)TYP
Measuring frequency	1kHz \pm 5%		
Measuring signal level	Differs according to the range. L:10mA ~ 1 μ A C:1V ~ 0.01V R:100mA ~ 1 μ A		
Range changeover	Auto or manual		
Display	L,C,R 3-1/2 digit, D 3-1/2 digit, LED display		
Sampling time	10 times per second approx. (Auto range changeover time:1 step 100 milli second)		
Changeover of measuring item	L and D, C and D, R push-button selectable		
Measuring mode	L	Series equivalent circuit	
	C	200pF, 2nF, 20nF, 200nF range(parallel equivalent circuit) 2 μ F, 20 μ F, 200 μ F, 2000 μ F range(series equivalent circuit)	
	R	Resistance, parallel resistance in inductance measurement	
Measuring terminal	5 terminals		
Output signal	L, C, R and D, analog voltage output(full scale DC2V)		
External bias	0 to 50V DC, 0.1A max.(capacitance measurement)		
Power supply	AC100V/117V/220V/240V \pm 10%, 50/60Hz, 30VA approx.		
Outer dimension	260(W) \times 90(H) \times 250(D)mm (excluding protruding parts such as rubber legs, etc.)		
Weight	about 2.2kg		
Option	BCD Parallel Data out		