

Model

AX-221N LCR Meter, with D-display

The function of auto range and auto mode are equipped



- Measuring range : L···0.1 μ H $\sim$ 199.9H
C···0.1pF $\sim$ 1999 μ F
R···1m Ω $\sim$ 1999k Ω
D···0.001 $\sim$ 1.999
- L,C,R 3½ digit, D 3½ digit, LED display
- Sampling time : 10 times/sec. approx.
(Auto range changeover time:1 step 100 milli second)
- L,C,R and d, analog voltage output (full scale DC2V)

Specifications

※The following accuracy is representative value

Measuring range and Accuracy (at23°C±5°C)	L	0.1 μ H～199.9H	±(0.5% of rdg+2digit+0.2 μ H) TYP
	C	0.1pF～1999 μ F	±(0.3% of rdg+2digit+0.2pF) TYP
	R	1mΩ ～1999kΩ	±(0.3% of rdg+2digit+2mΩ) TYP
	D	0.001～1.999	±(0.5% of rdg+2digit) TYP
Measuring frequency	1kHz±5%		
Measuring signal level	L	10mA～1 μ A	Differs according to the range.
	C	1V～0.01V	
	R	100mA～1 μ A	
Range changeover	Auto or manual		
Display	L,C,R 3½ digit, D 3½ digit, LED display		
Measurement time	Less than one second to stabilize the measured value		
Sampling time	10 times per second approx. (Auto range changeover time:1 step 100 msec.)		
Changeover of measuring item	L and D, C and D, R are selectable from push-button switch		
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 series equivalent circuit	
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～240V selectable, 50/60Hz, about 15VA		
Outer dimension	about 260(W)×90(H)×250(D)mm (excluding protruding parts such as rubber legs, etc.)		
Weight	about 2.2kg		

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 3½ digit and in case of the measurement of L or C, the value of D (loss coefficient) is also displayed in 3½ digit. Analog voltage proportional to the measured value is output, too, for the connection to an analog recorder, analog comparator, etc.

Option

- BCD Parallel Data out