

Judgment indications [GO] [NG] built-in digital comparator



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

Specifications

※The following accuracy is representative value

Measurement unit			
Measuring signal and Accuracy (23°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	1m Ω ~ 1999k Ω	±(0.3% of rdg + 2digit + 2m Ω) 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, LED display		
Measuring time	Less than one second to stabilize the measured value		
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 series equivalent circuit	
Measuring terminal	5 terminals		
Output signal	L, C, R and D, analog voltage output (full scale DC2V)		
External bias	0 ~ 50V DC, 0.1A max. (capacitance measurement)		
Power supply	AC100V ~ 240V selectable, 50/60Hz, about 15VA		
Outer dimension	about 333 (W) × 85 (H) × 245 (D) mm (excluding protruding parts such as rubber legs, etc.)		
Weight	about 3kg		

Comparator unit			
Digital comparison method LCR, and D			
Judgment error	None		
Judgment time	about 1ms (Relay operate time)		
Setting range	1999, D1999 LCR, -NG, with + NG		
Display GO / NG	LCR	-NG	Red LED
		+NG	
	D	NG	Green LED
TOTAL	GO		
Buzzer	NG at buzzer, Buzzer GO, No buzzer can be switched		
Hold	Possible		
Relay output	LCR	-NG	One contact each transfer DC 30V 20W AC110V 33VA (Resistance load)
		+NG	
	D	NG	
TOTAL	GO		
BCD Parallel Data out (Option)	LCR	1999 3½ digit and blank	Parallel output fan out 1
	D	1999 3½ digit and D blank	
Measurement completes pulse width about 2ms positive pulse			

The Outline

Model AX-222, Digital LCR meter, can easily measure not only electronic part such as coil, electrostatic condenser, and resistor but also contact resistance like switch, relay and internal resistance of a battery and junction capacitance of semiconductor, and every elements.

Built-in comparator, it can be informed a judgment result by LED indication and buzzer also be printed out.

With a function of auto range and auto mode, it can measure to select the most approximate range automatically for measurement thing of an unknown value.

It is selectable a range by hand, will become shorten the measuring time by range switching.

Display shows a value of LCR for 3½ digits, at the same time indicates a value of D (loss factor) 3½ digit when L or C measurement.

Analog voltage outputs proportional to the measurement value, it can be connected to analog recorder or analog comparator, and others.

Option

- BCD Parallel Data out