

## APPA 700 SERIES LCR METERS

FEATURES:	APPA 700b	APPA 701	APPA 703
Digital display	20,000/2,000 count	20,000/2,000 count	20,000/2,000 count
Analog Bar graph Segments	46	46	46
Auto Backlit, Dual Display	•	•	•
Auto Selection of LCR testing	•	•	•
Auto Ranging	•	•	•
Measurement Parameters	L,C,R,D,Q, $\theta$ , EsR	L,C,R,D,Q, $\theta$ , EsR	L,C,R,D,Q, $\theta$ , EsR
Testing Frequency 100Hz/120Hz/1kHz/10kHz/100kHz selectable	•	•	•
Testing Frequency 100Hz/120Hz/1kHz/10kHz selectable	•	•	•
Testing Frequency 100Hz/120Hz/1kHz selectable	•	•	•
Parallel/Serial test mode	•	•	•
Sorting mode for QC	•	•	•
Data Hold	•	•	•
Self-Calibration	•	•	•
External DC Power operation	•	•	•
Max/Min	N/A	N/A	•
Zeroing Mode	•	•	•
Low battery Indication	•	•	•
Automatic power shut off	•	•	•
USB interface	•	•	•
2 wires Easy Testing	•	•	•
4 wires Accuracy Testing	•	•	•
Full Accessories	Standard Accessories	Standard Accessories	•

SPECIFICATIONS:(All at 23°C ± 5°C, ≤ 80% R.H.) Multiply accuracy digit by 10 in 20,000 count mode.

Inductance:	Ranges	2000 $\mu$ H~20KH	200 $\mu$ H~20KH	20 $\mu$ H~20KH
	Resolution	0.1 $\mu$ H	0.01 $\mu$ H	0.001 $\mu$ H
	Basic Accuracy	± (0.2%+5d)	± (0.2%+5d)	± (0.2%+5d)
Capacitance:	Ranges	2000pF~20mF	200pF~20mF	20pF~20mF
	Resolution	0.1pF	0.01pF	0.001pF
	Basic Accuracy	± (0.2%+5d)	± (0.2%+5d)	± (0.2%+5d)
Resistance:	Ranges	20 $\Omega$ ~200M $\Omega$	20 $\Omega$ ~200M $\Omega$	20 $\Omega$ ~200M $\Omega$
	Resolution	0.001 $\Omega$	0.001 $\Omega$	0.001 $\Omega$
	Basic Accuracy	± (0.2%+5d)	± (0.2%+5d)	± (0.2%+5d)
DC Resistance:	Ranges	200 $\Omega$ ~200M $\Omega$	200 $\Omega$ ~200M $\Omega$	200 $\Omega$ ~200M $\Omega$
	Resolution	0.01 $\Omega$	0.01 $\Omega$	0.01 $\Omega$
	Basic Accuracy: 40Hz~100KHz	± (0.2%+5d)	± (0.2%+5d)	± (0.2%+5d)
Q:	Ranges	0.000~2000	0.000~2000	0.000~2000
	Resolution	0.001	0.001	0.001
D:	Ranges	0.000~2000	0.000~2000	0.000~2000
	Resolution	0.001	0.001	0.001
$\theta$ :	Ranges:	± 90°	± 90°	± 90°
	Resolution	0.1°	0.1°	0.1°

## GENERAL:

Sampling Rate	1.25 times/sec	1.25 times/sec	1.25 times/sec
Overload Indication: "OL" or "-OL"	•	•	•
Low Battery Indication	□	□	□
Auto Power Off: Approx. 10 minutes	•	•	•
Operating Temperature: 0°C ~ 50°C, ≤ 80% RH	•	•	•
Storage Temperature: - 20°C ~ 60°C	•	•	•
Temperature Coefficient: 0.15 (Spec. Acc) / °C, < 18°C or > 28°C	•	•	•
Safety: Complies with EN 61010-1, IEC 61010-1 and EN 61326-1	•	•	•
Power Requirement: AA size 1.5V x 4 batteries (NEDA 15A or IEC LR6)	•	•	•
Battery Life: In hours (No backlit, Alkaline battery)	80	80	80
Size: 95mm(W) x 200mm (L) x 51.20 mm(H), without holster	•	•	•
Weight: In grams (with batteries)	630	630	630
Accessories: Alligator Clips, Shorting Bar, Magnetic Hanging Kit, Alkaline batteries (installed) and manual	•	•	Also included 4 wires SMD clip, DC power cord, USB cable and CD-ROM software.

Specifications subject to change without notice.

Copyright © 2015 APPA Tech., Corp. All rights reserved

# APPA 700 Series LCR Meters

## Automatic Selection Technology



Distributed by:

### APPA TECHNOLOGY CORPORATION

9F, 119-1 Pao-Zong Rd., Shintien, Taipei, 231, TAIWAN  
 Tel: +886-2-29178820 Fax: +886-2-29170848  
 E-mail: info@appatech.com · http://www.appatech.com  
 ISO 9001 CERTIFIED

# APPA®

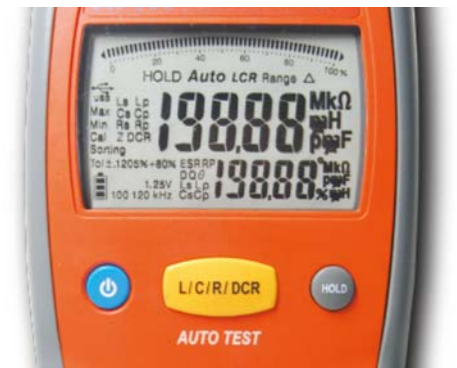
Advanced Instrument Technology Made Easy





### DAY & NIGHT

An innovative auto ON/OFF backlit feature give you fulltime display visibility and increased battery life.



### FULL AUTOMATIC SELECTION

Automatically measuring L, C and R with Q, D, and  $\theta$  by just turn on the meter, the first ever-smart LCR meter.



### USB INTERFACE

Safe and easy used USB interface to connect to PC for data acquisition or connect to a DC power supply.

### BATTERY EASY TO REPLACE

Unscrew only one screw to remove battery door for battery replacement, designed for user's convenience without opening the bottom case.



### EXTRA PROTECTION

Ergonomically designed slim shape protective holster that includes a built-in tilt stand, a nail hook, and convenient test lead storage. This holster provides an extra degree of protection and convenience for your meter.



### NO-OPTION FULL ACCESSORIES

Ergonomically designed test clip with comfort-grip (700b, 701, 703), 4-wires SMD test clip, magnetic hanging kit, shorting bar, AC power adaptor, USB cable and a CD software(703)



### APPA 701

20,000/2,000 count dual digital display  
46 segments Bar graph display  
Auto Selection of LCR Testing  
Auto Ranging  
Auto Backlit  
0.2% basic accuracy Capacitance and Inductance  
Measurement Parameters: L.C.R.D.Q.  $\theta$ , EsR  
Testing Frequency: 100Hz/120Hz /1KHz/10KHz selectable  
Parallel/Serial test mode  
Sorting mode for QC  
Data Hold  
Self Calibration  
External DC power operation  
Zeroing Mode  
Low Battery Indication  
Auto Power Off  
Optical USB interface  
2 Wires Easy Testing  
4 Wires Accuracy Testing



### APPA 703

20,000/2,000 count dual digital display  
46 segments Bar graph display  
Auto Selection of LCR Testing  
Auto Ranging  
Auto Backlit  
0.2% basic accuracy Capacitance and Inductance  
Measurement Parameters: L.C.R.D.Q.  $\theta$ , EsR  
Testing Frequency: 100Hz/120Hz/1KHz/10KHz /100KHz selectable  
Parallel/Serial test mode  
Sorting mode for QC  
Static recording (Max/Min)  
Data Hold  
Self Calibration  
External DC power operation  
Zeroing Mode  
Low Battery Indication  
Auto Power Off  
Optical USB interface  
2 Wires Easy Testing  
4 Wires Accuracy Testing  
Full accessories included



### NEW APPA 700b

20,000/2,000 count dual digital display  
46 segments Bar graph display  
Auto Selection of LCR Testing  
Auto Ranging  
Auto Backlit  
0.2% basic accuracy Capacitance and Inductance  
Measurement Parameters: L.C.R.D.Q.  $\theta$ , EsR  
Testing Frequency: 100Hz/120Hz /1KHz selectable  
Parallel/Serial test mode  
Sorting mode for QC  
Data Hold  
Self Calibration  
External DC power operation  
Zeroing Mode  
Low Battery Indication  
Auto Power Off  
Optical USB interface  
2 Wires Easy Testing  
4 Wires Accuracy Testing

