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# Capacitance Meters

## Specifications

	890	830A	models
<b>CAPACITANCE</b>			
RANGE (Best Resolution)	500pF (0.1pF) 5nF (1pF) 50nF (10pF) 500nF (0.1nF) 5μF (1nF) 50μF (10nF) 500μF (0.1μF) 5000μF (1μF) 50mF (10μF)	10 automatically selected ranges 199.9pF to 19.99μF (0.1pF on lowest range, otherwise 0.05% of FS) 20μF to 199.9mF (0.05% of full scale)	200pF (0.1pF) 2nF (1pF) 20nF (10pF) 200nF (100pF) 2μF (1nF) 20μF (10nF) 200μF (100nF) 2000μF (1μF) 20mF (10μF)
ACCURACY	±(1%rdg + 10dgt) ±(1%rdg + 3dgt) ±(1%rdg + 3dgt) ±(1%rdg + 3dgt) ±(1%rdg + 3dgt) ±(1%rdg + 3dgt) ±(2%rdg + 3dgt)* ±(2%rdg + 3dgt)* ±(2%rdg + 3dgt)*	±(0.2%rdg + 1dgt + 0.5pF) ±(1%rdg + 2dgt)	±(0.5% rdg + 1dgt + 0.5pF) ±(0.5% rdg + 1dgt) ±(0.5% rdg + 1dgt) ±(0.5% rdg + 1dgt) ±(0.5% rdg + 1dgt) ±(0.5% rdg + 1dgt) ±(2% rdg + 1dgt) ±(4% rdg + 1dgt)

## POWER SOURCE

	9V Battery	9V Battery	9V Battery
BATTERY LIFE	200 hours typ. (alkaline)	20 hours typ. (alkaline)	200 hours typ. (alkaline)
DISPLAY	4 digit LCD (dual)	3 1/2 digit LCD	3 1/2 digit LCD
DIGIT HEIGHT	0.5/0.3" (13/7.6mm)	0.5" (13mm)	0.56" (14mm)
OPERATING TEMPERATURE	32° to 122°F (0° to 50°C)	32° to 122°F** (0° to 50°C)**	32° to 104°F (0° to 40°C)
STORAGE TEMPERATURE	-4° to 140°F (-20° to 60°C)	-1° to 125°F (-18° to 52°C)	14° to 140°F, <70% RH (-10° to 60°C)
DIMENSIONS (L x W x D)	7.56 x 3.54 x 1.46" (192 x 90 x 37 mm)	7.5 x 4.0 x 2.0" (190 x 101 x 50 mm)	6.75 x 3.0 x 2.25" (171 x 76 x 57 mm)
WEIGHT	17.64 oz. (500g)	1 lbs. (454g)	11.3 oz. (200g)

**Three Year Warranty**

**One Year Warranty**

## Accessories

SUPPLIED:	Test Leads, Manual, Battery	Manual, Battery	Test Leads, Manual, Battery
OPTIONAL:	TL-8 AK-890 RS-232 Pkg.	TL-8 Probe BE-12 AC adapter	TL-8
CARRYING CASE:	LC-29B (Not included)	LC-29B	LC-29B

\* >2mF, NO Spec. \*\* 59° to 95°F (15° to 35°C) for specified accuracy

## Additional Specifications

	model
EXCITATION VOLTAGE	<3.5 V Max. (approximate)
ZERO ADJUSTMENT RANGE	+ 20 pF typical
PROTECTION	Input protected by 0.1A/ 250 V Fast Acting.
MEASUREMENT RATE	2 per second, nominal.

## Additional Specifications

	model
HOLD ACCURACY	all specs between 180 & 1999 counts same as Auto: for all readings between 0 and 179 counts add: 0.1% for full scale to 19.99 mF; 0.5% of full scale from 19.99 mF to 199.9 mF.
READING TIME	0.4-1.0 sec to 20 mF; increasing to 6 sec at 200 mF.
ZERO CONTROL	Can compensate up to 2000 pF of test lead capacitance.
OVERRANGE INDICATOR	01 display and mF indicates on.

## Model 810C Capacitance Meter

The Model 810C Capacitance Meter is a compact capacitance meter, designed for accurate measurement of capacitive components. It features direct plug-in test sockets and test lead jacks. A zero adjustment knob is also provided to "zero" test lead capacitance.



**810C**

### ■Zero adjustment knob

### ■Capacitor test sockets

### ■Fuse protected

### ■Protective rubber boot

## Model 830A Capacitance Meter

The Model 830A Capacitance Meter is a highly accurate capacitance meter. It is fully autoranging and can be powered from a choice of alkaline batteries or from AC/DC adapter/charger (sold separately). A selectable range hold feature provides for fast batch testing of large value capacitors.



**830A**

### ■Auto ranging

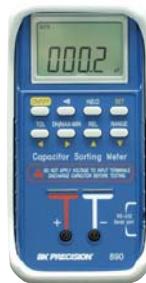
### ■Selectable range hold feature

### ■Zero adjustment

### ■Capacitor test socket and test lead jacks

## Model 890

The Model 890 Capacitance Meter features a large LCD with dual display, 5,000 counts resolution, and 10 automatically selected ranges with full scale value from 0.1pF to 50mF. Designed to meet the latest international safety standards, the meter's dedicated chip and microprocessor allow programmable high/low limits or pre-programmed standard capacitor tolerances, making it ideal for measuring values, inspection, sorting capacitors and testing capacitors against standard tolerances. Optional software and cabling is available for PC based data logging and monitoring. The 890 is a unique value and is indispensable on the inspection bench.



**890**

- Dual display simultaneously
- Program unique values
- Displays value and deviation
- To sort for specific circuit applications
- From selected tolerance
- Sort on preset tolerance of 1, 5, 10%
- RS-232 interface for data logging software available