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深圳世家仪器有限公司
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U1701B

Handheld capacitance meter

Introduction

The Keysight Technologies, Inc. handheld capacitance meters expand Keysight's portfolio of handheld tools into electronics assembly and passive components troubleshooting. Keysight now offers its handheld capacitance meter, the U1701B, providing extra capabilities and functionalities.



Features

- 11,000 counts resolution
- Dual display with backlight
- Wide range: 1000 pF to 199.99 mF
- Compare mode with 25 sets of High/Low limit settings
- Tolerance mode: 1%, 5%, 10% and 20%
- Relative mode
- Hold and Min/Max/Average recordings
- Data logging to PC with optional IR-to-USB cable.

Efficient capacitor sorting

With up to 25 sets of High/Low limits that you can store and choose from in compare mode, the U1701B lets you breeze through capacitor sorting without the need to set and reset the standard reference for different capacitors-under-test.

The U1701B also comes with other handy functions, including tolerance and relative modes, Hold, Min/Max/Average recordings, and PC data logging.



Figure 1. Automate the recording of continuous readings when you hook the U1701B to a PC.

Uncompromised quality and reliability

The handheld capacitance meter comes in a robust overmold and is tested to stringent industrial standards. Each capacitance meter is sealed with the assurance that you can test your components with confidence.

Take a Closer Look



Figure 2. U1701B front view

U1701B Electrical Specifications

Accuracy is given as \pm (% of output + counts of least significant digit) at $23\text{ }^{\circ}\text{C} \pm 5\text{ }^{\circ}\text{C}$, with relative humidity less than 80% RH.

For example, $1\% \pm 10$ = 1% of reading + 10 counts of least significant digit.


Capacitance

Range	Resolution	Accuracy ¹	Measuring rate (approx.)
1000.0 pF	0.1 pF	$1\% + 10^2$	5 times/s
10.000 nF	0.001 nF	$1\% + 5$	5 times/s
100.00 nF	0.01 nF	$0.5\% + 3$	5 times/s
1000.0 nF	0.1 nF	$0.5\% + 3$	5 times/s
10.000 μF	0.001 μF	$0.5\% + 3$	5 times/s
100.00 μF	0.01 μF	$0.5\% + 3$	5 times/s
1000.0 μF	0.1 μF	$0.5\% + 3$	0.86 times/s
10.000 mF	0.001 mF	$1\% + 5$	0.13 times/s
199.99 mF	0.01 mF	$2\% + 5$	0.006 times/s

¹ Accuracy is specified to measure film capacitor or better. Use Relative mode to zero residual

² Typical specification

General Specifications






Parameter	U1701B
Display	4½-digit liquid crystal display (LCD) with a maximum resolution of 11,000 counts and automatic polarity indication
Power supply	9 V Alkaline battery (ANSI/NEDA 1604A or IEC 6LR61) AC power adapter and cord available as options
Power consumption	5.6 mA (on battery operation)
Battery life	~80 hours without a backlight and based on new alkaline
Operating temperature	Full accuracy at 0 °C to 50 °C
Operating humidity	Up to 80% relative humidity (RH) for temperatures up to 31 °C, decreasing linearly to 50% RH at 50 °C
Altitude	0 to 2000 m
Storage temperature	-20 °C to 60 °C
Storage humidity	0 to 80% R.H. non-condensing
Temperature coefficient	0.1 x (specified accuracy)/ °C (from 0 °C to 18 °C or 28 °C to 50 °C)
Low battery indicator	 will appear when the voltage drops below ~ 6.0 V
Weight	320 g
Dimensions (H x W x D)	184 mm x 87 mm x 41 mm
Safety and EMC compliance	Refer to Declaration of Conformity for the latest revisions of regulatory compliance at www.keysight.com/go/conformity IEC 61010-1:2001/EN 61010-1:2001 (2nd Edition) Pollution Degree 2, IEC 61326-2-1:2005/EN 61326-2-1:2006, ICES-001:2004, AS/NZS CISPR11:2004 Note: If used in close proximity to an RF transmitter or when subjected to continuously present electromagnetic phenomena, some recoverable degradation of performance may occur.
Calibration	One-year calibration cycle recommended

Ordering Information

Standard shipped items

Standard U1701B ordering includes	Quick Start Guide Certificate of Calibration (CoC) Alligator clip leads 9 V alkaline battery
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Recommended accessories

U1774A		Soft carrying case
U5481A		IR-to-USB cable
U1782A		SMB tweezer
U1780A		Power adapter and cord (according to country)
U1781A		Alligator clip leads

Keysight enables innovators to push the boundaries of engineering by quickly solving design, emulation, and test challenges to create the best product experiences. Start your innovation journey at www.keysight.com.

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