# Keysight U1177A
# IR-to-*Bluetooth*® Adapter
## Data Sheet



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# Introduction

Keysight Technologies, Inc. U1177A Infrared (IR)-to-*Bluetooth* adapter offers wireless remote connectivity solution via *Bluetooth* connection simply by attaching the adapter to the IR port of a Keysight handheld digital multimeter. The wireless remote connectivity is set up when a Keysight handheld digital multimeter is connected to U1177A and an Android device (tablet or smart phone) with the installed software. Every U1177A also has a unique Media Access Control (MAC) address. User can quickly and easily scan for the right U1177A using their Android device and pair up with the U1177A.



Figure 1. Award winning U1177A Infrared (IR)-to-*Bluetooth* adapter is being recognized as an innovative solution in Test & Measurement industry
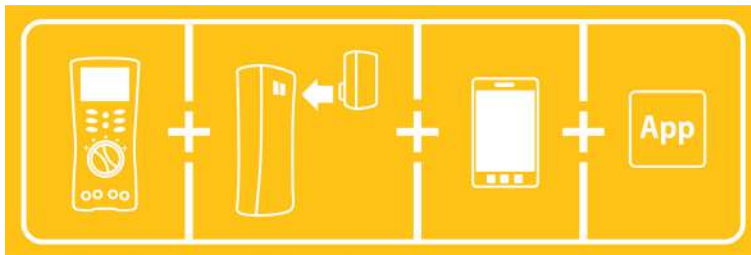


Figure 2. Keysight wireless remote connectivity solution

## Features

– Enables *Bluetooth* connection to Keysight handheld digital multimeters
– Easy to install by attaching to Infrared (IR) port located at the back of Keysight handheld digital multimeters
– Compatible with Keysight U1230 series, U1240 series, U1250 series and U1270 series handheld digital multimeters
– Operated by two 1.5 V AAA batteries

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# Take a closer look

Low battery indication:
Red LED flashing

*Bluetooth* disconnected:
Green LED flashing

*Bluetooth* connected:
Green solid LED

*Bluetooth* power off:
LED off

ON/OFF/Setup
slide switch



Figure 3. The U1177A as illustrated

## Perform data logging with up to three multimeters – wirelessly and simultaneously!

Data logging is an important function for industrial users to capture data streams or plotting trending graphs. These data and graphs are used for analysis to identify intermittent behavior or detect drifts. Keysight Mobile Logger is the free Android application software that logs data and provides trending graphs from Keysight handheld digital multimeters. Keysight Mobile Logger offers an array of extended functions such as sending e-mail or Short Message Service (SMS) automatically, and pan and zoom function via the Android device's touch screen. Alternatively, data logging and monitoring activities can also be performed at the comfort of one's Personal Computer (PC) via a downloadable Keysight GUI data logger software.



Figure 4. Data logging with Keysight Mobile Logger software.

Notes:

1. Keysight Mobile Meter and Keysight Mobile Logger can be downloaded from www.keysight.com/find/hh-Android or from Android Market (https://market.android.com/)

2. Keysight GUI Data Logger Software can be www.keysight.com/find/hh-logger

## Monitor up to three multimeter measurements at the same time with Keysight Mobile Meter

Keysight Mobile Meter is a free Android application software that allows an Android device to connect, control and perform up to 3 multimeter measurements. Without the need to be physically present at various points, users can now extend their reach to two or three places. This solution allows you to make measurements from a safe distance, eliminates the need to walk back-and-forth between measure target and control points, and monitors multiple measurements simultaneously. Achieve higher work productivity when you use the U1177A with your Keysight handheld digital multimeters.



Figure 5. Up to three multimeters measurements with the Keysight Mobile Meter



Figure 6. Make measurements with the Keysight Mobile Meter via an Android smart phone

# Specifications

| Product characteristics | Description |
| --- | --- |
| Radio specification | — Frequency: 2402 MHz ~ 2480 MHz<br>— Antenna Power: 1 mW or less<br>— Number of Channels: 79<br>— Modulation: GFSK / PSK |
| Operating environment | Operating temperature from –20 to 55 °C |
| Storage environment | Storage temperature from –40 to 70 °C |
| Relative humidity (R.H.) | Relative humidity up to 95% at 40 °C (non-condensing) |
| Power consumption | Maximum 130 mVA for two 1.5 V AAA batteries |
| Battery life | 30 hours typical (based on continuous data transfer) |
| Battery type | Alkaline 24 A (ANSI/NEDA) and LR03 (IEC), or Zinc Chloride 24 D (ANSI/NEDA) and R03 (IEC) |
| Dimension (W x H x L) | 39.0 × 71.0 × 37.0 mm |
| Weight | 60 g with batteries |
| Warranty | Three months |
| *Bluetooth* | "***Bluetooth***" Version 2.1 + EDR compliant, SPP profile, Class 2 device (with 10 metres connection range) |
| Safety | The U1177A complies with the requirements of the following safety and regulation standards:<br>— FCC Part15C (Certification) (15.209, 15.247) FCC ID: ZKMKEYSIGHT-U1177A<br>— FCC Part15B (DoC) (15.109)<br>— RSS–210 Issue 8:2010 IC: 6310A–U1177A<br>— ICES–003 Issue 4:2004<br>— EN 300 328 V1.7.1:2008<br>— EN 301 489–1V1.8.1:2008/–17 V2.11:2009<br>— EN 55022:2006+A1:2007/EN55024:1998+A1:2001+A2:2003<br>— EN 50371:2002<br>— EN 60950–1:2006/A11:2009/A1:2010<br>— Complies with IDA Standards (DB 102425)<br>— India Equipment Type Approval (ETA) Certificate No: 1424/2011/WRLO<br>— COFETEL Certificate No: RCPAGU111-1066, registered under Keysight Technologies Mexico S de RL de CV<br><br>"This telecommunication equipment conforms NTC technical requirement" |

**Standard shipped items:**

— Two 1.5 V AAA batteries
— Operating instructions

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