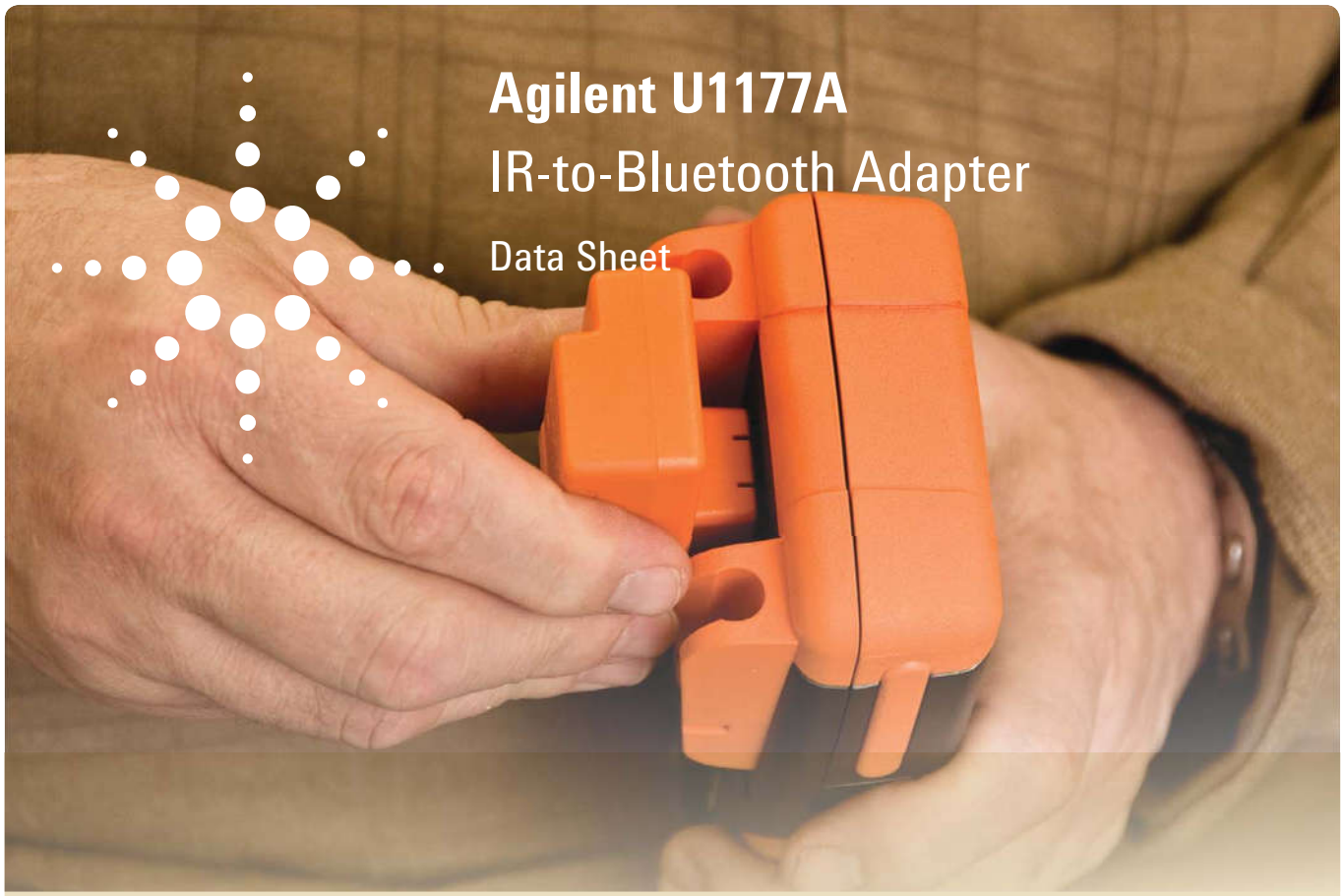

Agilent U1177A
IR-to-Bluetooth Adapter
Data Sheet

Features

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

The Bluetooth® word mark and logos are registered trademark owned by Bluetooth SIG, Inc and any use of such marks by Agilent Technologies, Inc. is under license. Other trademark and trade names are those of their respective owners.

Agilent U1177A Infrared (IR)-to-Bluetooth® adapter offers wireless remote connectivity solution via Bluetooth® connection simply by attaching the adapter to the IR port of an Agilent handheld digital multimeter. The wireless remote connectivity is set up when an Agilent 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.

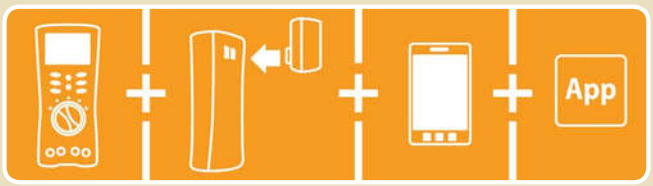

Figure 1. Agilent wireless remote connectivity solution

Anticipate ___Accelerate ___Achieve

Agilent Technologies



Take a closer look



Figure 2. The U1177A as illustrated

Perform data logging with multimeters – wirelessly!



Figure 3. Data logging with Agilent Mobile Logger software.

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. Agilent Mobile Logger is the free Android application software that logs data and provides trending graphs from Agilent handheld digital multimeters. Agilent 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 Agilent GUI data logger software.

Notes:

1. *Agilent Mobile Meter and Agilent Mobile Logger can be downloaded from www.agilent.com/find/hh-Android or from Android Market (https://market.android.com/)*
2. *Agilent GUI Data Logger Software can be www.agilent.com/find/hh-logger*

Perform up to three multimeter measurements at the same time with Agilent Mobile Meter



Figure 4. Up to three multimeters measurements with the Agilent Mobile Meter

Agilent 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 Agilent handheld digital multimeters.

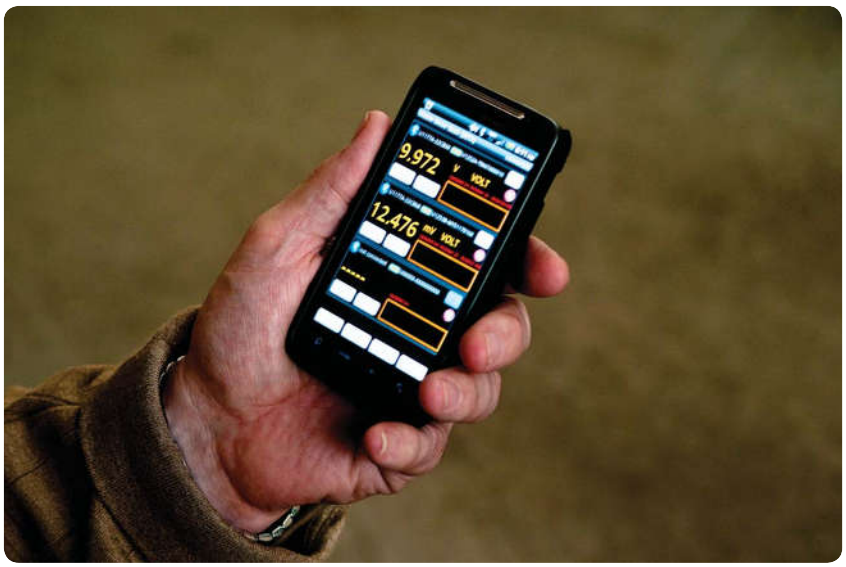

Figure 5. Make measurements with the Agilent Mobile Meter via an Android smart phone

Specifications

Product characteristics	Description
Radio specification	• Frequency: 2402 MHz ~ 2480 MHz • Antenna Power: 1 mW or less • Number of Channels: 79 • 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: • FCC Part15C (Certification) (15.209, 15.247) FCC ID: ZKMAGILENT-U1177A • FCC Part15B (DoC) (15.109) • RSS–210 Issue 8:2010 IC: 6310A–U1177A • ICES–003 Issue 4:2004 • EN 300 328 V1.7.1:2008 • EN 301 489–1V1.8.1:2008/–17 V2.11:2009 • EN 55022:2006+A1:2007/EN55024:1998+A1:2001+A2:2003 • EN 50371:2002 • EN 60950–1:2006/A11:2009/A1:2010 • Complies with IDA Standards (DB 102425) • India Equipment Type Approval (ETA) Certificate No: 1424/2011/WRLO • COFETEL Certificate No: RCPAGU111-1066, registered under Agilent Technologies Mexico S de RL de CV "This telecommunication equipment conforms NTC technical requirement"



Standard shipped items:

- Two 1.5 V AAA batteries
- Operating instructions

www.agilent.com
www.agilent.com/find/U1177A

Agilent Email Updates

www.agilent.com/find/emailupdates
Get the latest information on the products and applications you select.

www.axiestandard.org
AdvancedTCA® Extensions for Instrumentation and Test (AXIe) is an open standard that extends the AdvancedTCA for general purpose and semiconductor test. Agilent is a founding member of the AXIe consortium.

www.lxistandard.org
LAN eXtensions for Instruments puts the power of Ethernet and the Web inside your test systems. Agilent is a founding member of the LXI consortium.

www.pxisa.org
PCI eXtensions for Instrumentation (PXI) modular instrumentation delivers a rugged, PC-based high-performance measurement and automation system.

Agilent Channel Partners

www.agilent.com/find/channelpartners
Get the best of both worlds: Agilent's measurement expertise and product breadth, combined with channel partner convenience.

Agilent Advantage Services

Agilent Advantage Services is committed to your success throughout your equipment's lifetime. To keep you competitive, we continually invest in tools and processes that speed up calibration and repair and reduce your cost of ownership. You can also use Infoline Web Services to manage equipment and services more effectively. By sharing our measurement and service expertise, we help you create the products that change our world.

www.agilent.com/find/advantageservices

DEKRA Certified ISO 9001:2008 Quality Management System

www.agilent.com/quality

For more information on Agilent Technologies' products, applications or services, please contact your local Agilent office. The complete list is available at:

www.agilent.com/find/contactus

Americas

Canada	(877) 894 4414
Brazil	(11) 4197 3600
Mexico	01800 5064 800
United States	(800) 829 4444

Asia Pacific

Australia	1 800 629 485
China	800 810 0189
Hong Kong	800 938 693
India	1 800 112 929
Japan	0120 (421) 345
Korea	080 769 0800
Malaysia	1 800 888 848
Singapore	1 800 375 8100
Taiwan	0800 047 866
Other AP Countries	(65) 375 8100

Europe & Middle East

Belgium	32 (0) 2 404 93 40
Denmark	45 45 80 12 15
Finland	358 (0) 10 855 2100
France	0825 010 700*
	*0.125 €/minute
Germany	49 (0) 7031 464 6333
Ireland	1890 924 204
Israel	972-3-9288-504/544
Italy	39 02 92 60 8484
Netherlands	31 (0) 20 547 2111
Spain	34 (91) 631 3300
Sweden	0200-88 22 55
United Kingdom	44 (0) 118 927 6201

For other unlisted countries:
www.agilent.com/find/contactus

Revised: January 6, 2012

Product specifications and descriptions in this document subject to change without notice.

© Agilent Technologies, Inc. 2012
Published in USA, February 2, 2012
5990-9531EN

Agilent Technologies

Optional Accessories



U1161A Extended Test Lead Kit

- Extended test leads: CAT III 1000 V, CAT IV 600 V, 15 A
- Test probe (4-mm tips): CAT III 1000 V, CAT IV 600 V, 15 A
- Medium-sized alligator clips: CAT III 1000 V, CAT IV 600 V, 15 A
- 4-mm banana plugs: CAT II 600 V, 10 A



U1162A Alligator clips

- One pair of insulated alligator clips (red and black). Recommended for use with Agilent standard test leads.
- Rated CAT III 1000 V, CAT IV 600 V, 15 A



U1163A SMT grabbers

- One pair of SMT grabbers (red and black). Recommended for use with Agilent standard test leads.
- Rated CAT II 300 V, 3 A



U1164A Fine-tip test probes

- One pair of fine-tip test probes (red and black). Recommended for use with Agilent standard test leads.
- Rated CAT II 300 V, 3 A



U1168A Standard test lead kit

- Test leads: CAT III 1000 V, CAT IV 600 V, 15 A
- Test probe (19-mm tips): CAT II 1000 V, 15 A
- Test probe (4-mm tips): CAT III 1000 V, CAT IV 600 V, 15 A (highly recommended for CAT IV environment)
- Alligator Clips: CAT III 1000 V, CAT IV 600 V, 15 A
- Fine tip test probes: CAT II 300 V, 3 A
- SMT grabber: CAT II 300 V, 3 A
- Mini grabber (black only): CAT II 300 V, 3 A



U1169A Test probe leads

- Test leads: CAT III 1000 V, CAT IV 600 V, 15 A
- Test probe (19-mm tips): CAT II 1000 V, 15 A
- Test probe (4-mm tips): CAT III 1000 V, CAT IV 600 V, 15 A (highly recommended for CAT IV environment)



U1170A Battery charger adapter

- Includes AC power cord based on country
- For use with U1252A/U1253A DMMs



U1171A Magnetic hanging kit

- For use with handhold DMMs



U1172A Transit case

The robust casing to transport your DMM and accessories

- Aluminum-clad, black panel construction
- Dimension (H x W x D): 18 x 13 x 6"
- Weight: 4 kg



U1173A IR-to-USB cable

- For remote control and data logging to PC
- Max. baud rate: 19,200 bits per second
- Compatible with all Agilent HH DMMs



U1174A Soft carrying case

The convenient way to carry your DMM and essential accessories

- Dimension (H x W x D): 9 x 5 x 3"



U1175A Carrying case

- Ideal for the U1210 series handheld clamp meters
- Dimension (H x W x D): 290 x 120 x 85 mm



U1176A LED Probe Clip Light

- 3 " in length
- To be clipped onto test probes to increase visibility
- Comes with one AAA battery



U1177A Infrared (IR)-to-*Bluetooth* Adapter

- Dimension (H x W x D): 71 x 39 x 37 mm
- Operated by two 1.5 V AAA batteries
- Compatible with all handheld DMMs



U1178A Soft carrying case

- Ideal for the U1190 series handheld clamp meters
- Dimensions (H x W x D): 245 x 120 x 50 mm



U1179A IR connectivity bracket

- Compatible only with the U1240 Series handheld digital multimeters
- Enables wireless remote connectivity when paired with the U1177A or to a PC with U1173A



U1180A Thermocouple adapter/lead kit

Includes thermocouple adapter, thermocouple bead J-type and thermocouple bead K-type.

- T/C adapter J/K-type
- T/C bead J-type: –20 to 200 °C
- T/C bead K-type: –20 to 200 °C



U1181A Immersion temperature probe

- Type-K T/C for use in oil and other liquids
- Measurement range: –50 to 700 °C
- Includes adapter U1184A for connection to DMM
- Requires module U1186A for connection to scope



U1182A Industrial surface temperature probe

- Type-K T/C for use on still surfaces
- Measurement range: –50 to 400 °C
- Includes adapter U1184A for connection to DMM
- Requires module U1186A for connection to scope



U1183A Air temperature probe

- Type-K T/C for use in air and non-caustic gas
- Measurement range: –50 to 800 °C
- Includes adapter U1184A for connection to DMM
- Requires module U1186A for connection to scope