

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

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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.

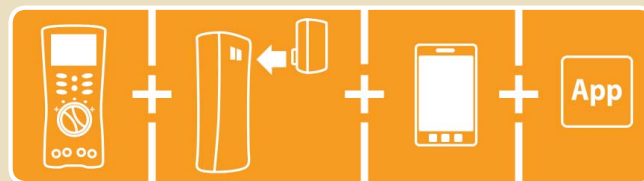


Figure 1. Agilent wireless remote connectivity solution





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

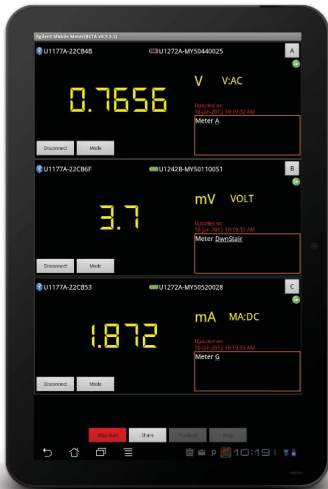


Figure 4. Up to three multimeters measurements with the Agilent Mobile Meter

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.

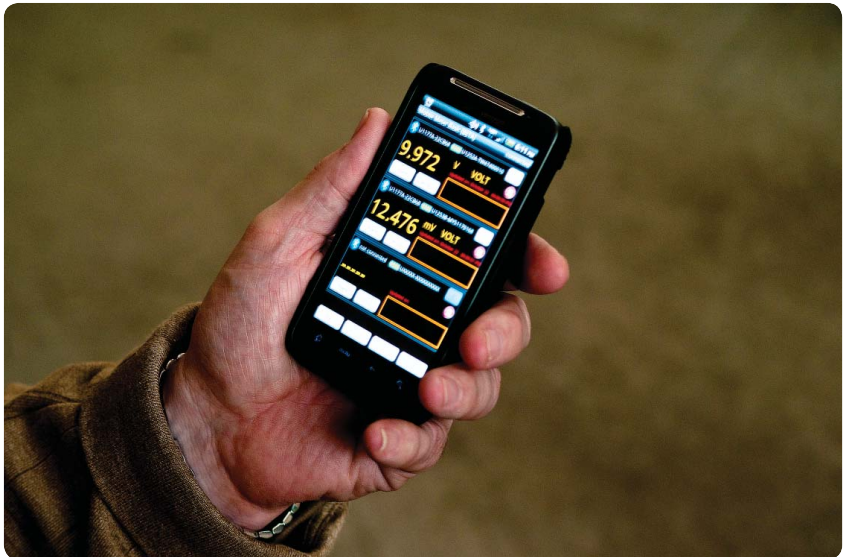


Figure 5. Make measurements with the Agilent Mobile Meter via an Android smart phone

Specifications

| Product characteristics | Description |
|--------------------------|--|
| Radio specification | <ul style="list-style-type: none"> • 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 | <p>The U1177A complies with the requirements of the following safety and regulation standards:</p> <ul style="list-style-type: none"> • 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 <p>"This telecommunication equipment conforms NTC technical requirement"</p> |



Standard shipped items:

- Two 1.5 V AAA batteries
- Operating instructions



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

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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 handheld 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