**The Front Panel at a Glance**

- 1 On/Off Switch
- 2 Measurement Function Keys
- 3 Configuration Key
- 4 Second Display Key (Reset)
- 5 Null Key (Math Functions)
- 6 Data Logger Key (USB)
- 7 Trigger Key (Auto Trip)
- 8 End Key (Auto Range)
- 9 Exit Key
- 10 Menu Navigation Keys (Range)
- 11 Front/Rear Switch
- 12 HI and LO Sense Terminals (4-wire measurements)
- 13 HI and LO Input Terminals (all functions except current)
- 14 Current Input Terminal (ac and dc current)

**Safety Summary**

Do not defeat power cord safety ground feature. Plug in to a grounded (earthed) outlet. Do not use product in any manner not specified by the manufacturer.

Do not install subassemblies or perform any unauthorized modification to the product. Return the product to Keysight Technologies or a designated repair center for service to ensure that safety features are maintained. Use the **CAUTION** notice denoted by the blue legends above the keys to select either the front or rear set of terminals. Press **Exit** again to configure temperature.

**WARNING**

A WARNING notice denotes a hazard. It calls attention to an operating procedure, practice, or the like, that if not followed or adhered to, could result in personal injury or death. Do not proceed beyond a WARNING notice until the indicated conditions are fully understood and met.

A CAUTION notice denotes a hazard. It calls attention to an operating procedure, practice, or the like, that if not correctly performed or adhered to, could result in instrument damage and lead to the risk of electric shock. Do not proceed beyond a CAUTION notice until the indicated conditions are fully understood and met.

**Symbols**

- **Earth Ground**
- **Chassis Ground**
- **Risk of electric shock**

Refer to manual for additional safety information.

**CAT 4 (6kV)**

IEC Measurement Category II inputs can be connected to mains up to 300 VAC under Category II overvoltage conditions.

**WARNING**

Main Power and Test Input Disconnect: Unplug product from wall outlet, remove power cord, and remove all probes from all terminals before servicing. Only qualified, service-trained personnel should remove the cover from the instrument.

**Line and Current Protection Fuses**:

For continued protection against line fuse, replace the line fuse and the current-protection fuse only with fuses of the specified type and rating.

Front/Rear Switch:

Do not change the position of the Front/Rear switch on the front panel once all signals are present on either the front or rear set of terminals. Switching while high voltages or currents are present may cause instrument damage.

IEEE Measurement Category II:

The HI and LO input terminals may be connected to mains under IEC Measurement Category II overvoltage conditions for measurement of line voltages up to 300 VAC. To avoid the danger of electric shock, do not connect the inputs to mains for line voltages above 300 VAC. Connect to mains only at an outlet, or in a device connected to such an outlet, on a branch circuit protected by a circuit breaker. See “Safety Notices” in the User’s Guide for further information.

Protection Limits:

To avoid instrument damage and the risk of electric shock, do not exceed any of the protection limits indicated on the terminal panel and defined in the User’s Guide.

ADDITIONAL SAFETY INFORMATION:

For further information, refer to the “Safety Notices” section in the Keysight 34410A/11A User’s Guide.

**Quick Start Tutorial**

1. **Preparing for Use**

   - Connect the Power Cord.
   - Then plug in the instrument.

2. **Connect to the Test Leads to the Input Terminals**

   - Connect 4-wire Resistance or Temperature
   - AC or DC Voltage
   - AC or DC Current

   - See “Safety Summary” on the back of this tutorial.

**Keysight 34410A/11A**

6½ Digit Multimeter

**Product Reference CD-ROM**

All product documentation, software, and examples are included on the Keysight 34410A/11A Product Reference CD-ROM.
2. Turning On the Meter

In the following example we’ll measure the dc and ac components of a sine wave with a dc offset:

Press the Power (on/off) switch. The self test takes a few seconds. The meter defaults to DC voltage (autorange):

To turn off the second display, press [OFF].

Now select [OFF] and press [OFF].

5. Displaying a Second Measurement Function

For some measurements you can display another measurement on the second display line.

Now select ACV for the second display, and press [ACV].

9999.9995 HZ

To turn off the second display, press [OFF].

Now select OFF and press [OFF].

3. Selecting a Function

To select a measurement function, press the appropriate key. For example, for the AC voltage function, press:

AC FILTER 20 Hz : MEDIUM

You are prompted to select an AC Filter value.

The arrows indicate there are more choices to the left and right. To select 200 Hz, use [-] key.

6. Triggering a Measurement

The trigger function allows you to trigger measurements either internally or externally. Let’s try it. Press [TRIGGER].

The instrument goes into single trigger mode. Press Trigger again to take another reading.

From the TRIGGER menu you can also select the reading HOLD feature, or you can select SETUP if you want to set the trigger parameters (see the User’s Guide).

7. Hints

1. Within a measurement configuration menu, the [ ] key does the same thing as the [ ] key.

2. Press [ ] to exit a menu at any time.

3. Press [ ] first, and then the shifted function key.

4. You can speed through the menu and save changes by holding down the [ ] key.

5. Use the Utility menu ( ) to configure the LAN, USB, or GPIB remote interfaces, and for general configuration.

6. When the instrument is in remote mode, the [ ] key serves as the Local key.

7. To reset the instrument, press [ ] (Reset).

8. For further information, see the Keysight 34410A/11A User’s Guide.

9. For information on SCPI programming, see the Keysight 34410A/11A Programmer’s Reference Help.

10. All documentation is included electronically on the Keysight 34410A/11A Product Reference CD/ROM.