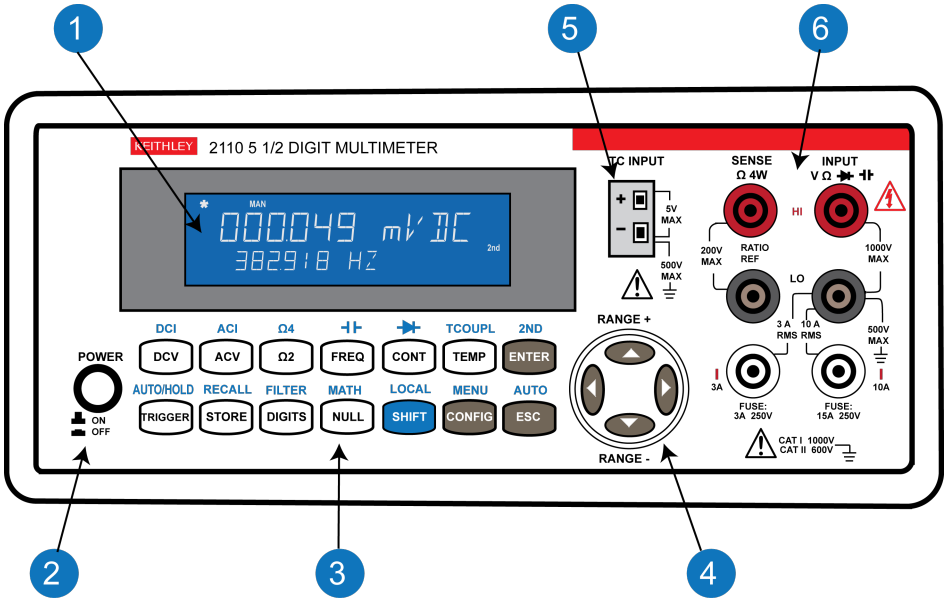
Front panel overview

This topic describes the keys, connections, and fuse device on the front panel. The following figure shows the front panel. A brief description of the front-panel features follows the figure.

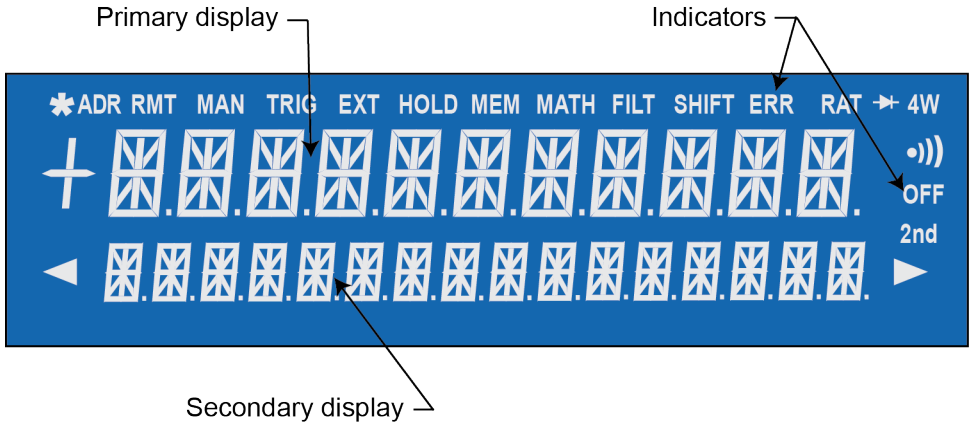
Figure 8: Front panel



(1) Display

The instrument display has a primary and a secondary display area. There are additional indicators at the upper side (top) and right side of the display to show the state or the condition of an ongoing measurement. They are explained individually in the following sections. The following figure shows the display with all indicators lit and all character segments lit.

Figure 9: Display



Primary display

The primary display shows readings and units. The primary display can show a maximum of 11 characters.

Secondary display

The secondary display shows the range of the measurements; condition, secondary readings and units; or information about an ongoing configuration. The secondary display can show a maximum of 16 characters.

Indicators

When you are using the instrument, the lit indicators show active functions. For example, in the following figure, the **MAN** indicator shows that the manual range is selected and the **2nd** indicator shows that the second function is in use.

Figure 10: Display typical

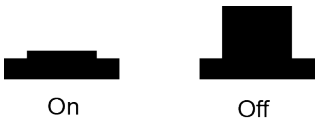
The following table describes the meaning of each lit indicator.

Indicator	Indicates
ADR	Instrument is controlled via the GPIB Interface.
RMT	Remote interface operation via the USB Interface.
MAN	Manual range mode is selected.
TRIG	External triggering is enabled.
*	The instrument has received a trigger.
HOLD	Reading hold function is enabled.
MEM	Internal memory is in use.
MATH	MATH operation is enabled.
FILT	The digital filter is enabled.
SHIFT	The SHIFT key was just pressed.
ERR	An error occurred.
RAT	RATIO operation is taken.
	Diode testing operation was initiated.
4W	4-wire mode is selected for resistance measurement.
	Continuity testing is enabled.
OFF	Front-panel display is turned off.
2nd	Second function is in use.

(2) The Power key

Power switch. The in position turns the instrument ON; the out position turns it OFF.

Figure 11: Power switch



(3) The function and operation keys

The front panel has keys that allow you to select various functions and operations.

Function
The function keys are white. Pressing a function key causes the instrument to perform a specific function. For example, pressing the **DCV** function key selects the DC voltage function.

Operation
The operation keys are gray. Pressing an operation key causes the instrument to perform a specific operation. For example, after selecting DC voltage function, press **Config** to enter the configuration menu for the DC voltage function.

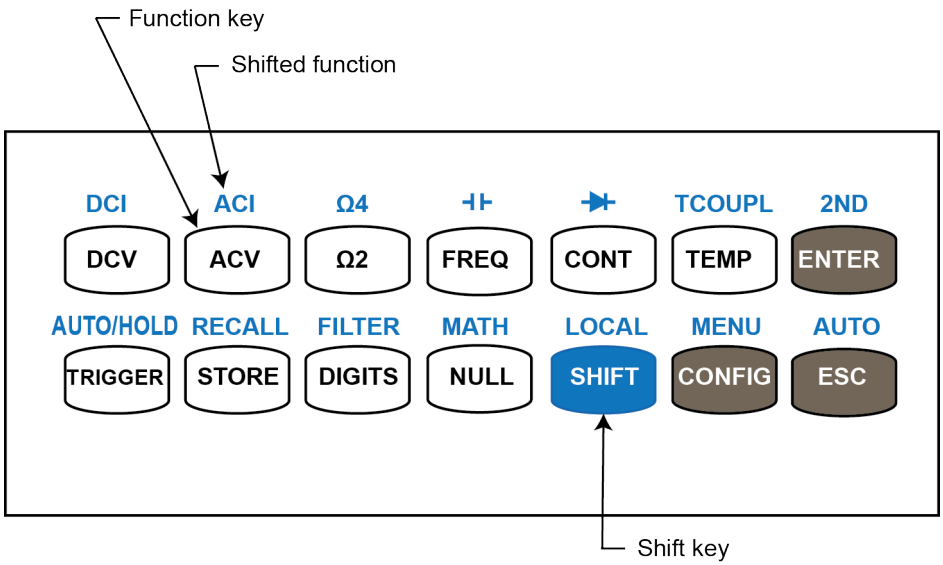
Shift key
The **SHIFT** key is blue. All keys have a shifted function or operation printed in blue above the key. The SHIFT key allows you to perform the shifted function or operation.

Shifted keys

To perform a shifted function or operation, press **SHIFT** and then press the key with the label for the function you want to perform printed above it. The procedures in this manual that require you to use a shifted key sequence list the key name followed by the shifted key name in parentheses. For example, to measure AC current, press **SHIFT** and then press the **ACV** (**ACI**) key.

See the following figure for the location of the keys.

Figure 12: Function and operation keys



The following table describes the functions and shifted functions associated with each key. The shifted functions are shown with a shaded background.

Key	Function
DCV	Selects DC voltage measurement.
ACV	Selects AC voltage measurement.
Ω2	Selects 2-wire resistance measurement.
FREQ	Selects frequency measurement.
CONT	Selects the continuity test.
TEMP	Selects RTD temperature measurement.
ENTER	Accepts selection, moving to next choice or back to measurement display.
DCI	Selects DC current measurement.
ACI	Selects AC current measurement.
Ω4	Selects 4-wire resistance measurement.
⊣⊢	Selects capacitance measurement.
→|←	Selects diode test.
TCOUPL	Selects thermocouple temperature measurement.
2ND	Sets secondary measurement.
TRIGGER	Sets the external trigger mode. When the TRIG indicator is lit, you can trigger the instrument by pulsing the EXT TRIG input or by pushing the TRIGGER button to generate manual triggers.
STORE	Stores a specified number of subsequent readings.
DIGITS	Changes display resolution. Note that changing the display resolution also changes the integration time. If you change the digits to 4½, the integration time is set to 0.02 PLC. If digits are set to 5½, the integration time is set to 1 PLC.
NULL	Activates the null function in order to offset the measurement error due to the test leads.
SHIFT	Used to access shifted-functions printed in blue over each key.
CONFIG	Configures the settings of selected measurement function. Refer to the topics in Basic measurement functions (on page 3-1) for configuration details.
ESC	Cancels selection, moving back to measurement display.
AUTO/HOLD	Enables or disables the reading hold function.
RECALL	Displays stored readings.
FILTER	Enables or disables averaging digital filter.
MATH	Enables or disables mathematical operations/tests, including PERCENT, AVERAGE, NULL, LIMITS, mX+b, dB, and dBm.
LOCAL	Switches the instrument to the local mode from the USB or GPIB remote mode.
MENU	Offers system-wide settings, trigger settings, and interface configurations. Refer to (7) Menu overview (on page 2-10) for information about menus.
AUTO	Enables or disables autorange.

(4) RANGE and scroll keys

Keys	Description
◄ and ►	Use ► and ◄ keys to scroll through options.
▲ and ▼	Use ▲ and ▼ keys to change the range while measuring. Use ▲ and ▼ keys to change a digit when setting parameters and entering values.

NOTE

If there are editable characters left or right of the one selected, arrow shaped indicators will display on the second line to indicate the presence and location of the additional characters.