



MIT 9216A

Digital LCR Meter



High Precision! High Performance!

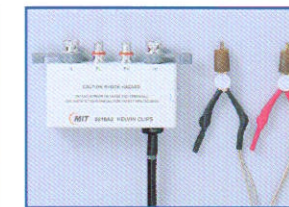
MIT 9216A DIGITAL LCR METER

MIT 9216A is a useful tool measuring a device characteristics with various functions. It has more than 13 orders of magnitude, basic accuracy of 0.05% and 5 test frequencies.

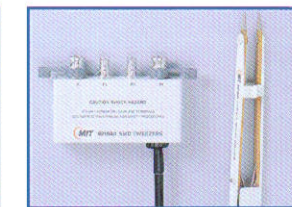
ACCESSORIES



Radial Fixture (Basic Accessory)
Radial or standard-size parts



Kelvin Clips (OPT.)
Axial or large-size parts



SMD Tweezers (OPT.)
SMD or small-size parts

PARAMETER

- **AUTO**
This switch causes the most appropriate parameter to be selected and measured automatically.
R+Q : $|Q| < +0.125$
L+Q : $Q > +0.125$
C+R : $Q < -0.125$ at Series mode
C+D : $Q < -0.125$ at Parallel mode
- R+Q = Resistance + Quality Factor
- L+Q = Inductance + Quality Factor
- C+D = Capacitance + 1/Q
- C+R = Capacitance + Resistance

FREQUENCY

- (Δ ∇)
- The output frequency is one of five fixed frequencies (100Hz, 120Hz, 1kHz, 10kHz, 100kHz) and is accurate to 100ppm(0.01%).

DRIVE VOLT

- **VOLT**
The VOLT key cycles through the three preset output drive voltage options.
- **CONS**
This button can set the meter in the constant voltage mode.

BIAS

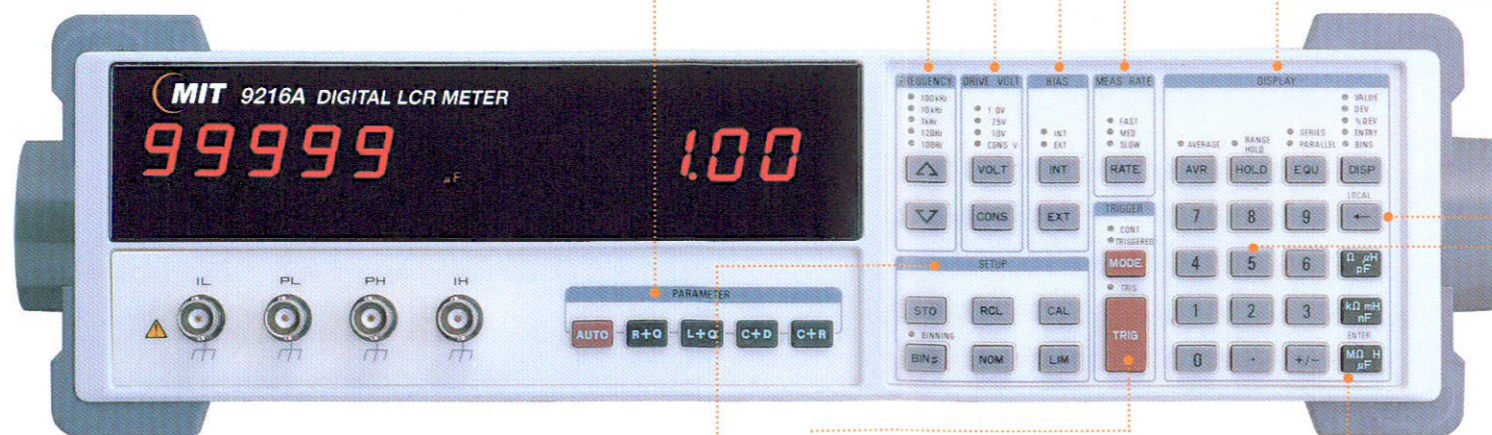
- This bias mode is used only for capacitance measurements.
If you press these buttons incorrectly, the error message 'bias for c' is displayed.
- **INT**
Internal button selects a 2.0VDC Internal bias.
 - **EXT**
It can select an external bias mode(0V - 40V)

MEAS RATE

- **RATE**
Selects slow, medium, or fast measurement rates(2, 10, or 20 Measurements per second at measurement frequency 1kHz or higher).

DISPLAY

- **AVR**
User can choose to average from 2 to 10 measurements with this button.
- **HOLD**
This button holds the meter in its current measurement range.
- **EQU**
This button toggles equivalent circuit between a series or parallel.
- **DISP**
'DISP' button selects the parameter on the display. You can select following display types.
 - VALUE : display the value of the measurement.
 - DEV : the deviation of the value from an entered value.
 - %DEV : the percent deviation from the nominal.
 - ENTRY : for entering parameter values.
 - BINS : selects the bin number when Binning is enabled.



SETUP

- **STO, RCL**
This button can store up to 9 setups in the memory.
- **CAL**
This button acts as a calibrate mode and special Configurable parameter.
- **BIN#, NOM, LIM**
These buttons are used to enter binning parameters.

TRIGGER

- **MODE**
This button selects between continuous (CONT) Or triggered (TRIGGERED) measurement.
- **TRIG**
Under the Trigger mode, when it presses, it measures one at a time.

ENTER

- These three buttons are used when entering numeric parameters in the entry mode, & acts as a general purpose ENTER button.



- Correcting mistakes when entering numeric data, and also serves as the 'LOCAL' function.