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3497A OPTIONS DESCRIPTIONS

As mentioned, options for the 3497A include the DVM (Option 001), plug-in assemblies (Options 010 through 140), an RS-232 interface (Option 232) and a 3498A Extender (Option 298). There are 11 plug-in assemblies which can be used with the 3497A to increase its capability for your data acquisition measurement or control application. Plug-in assemblies provide a connection interface between your system transducer outputs and the 3497A.

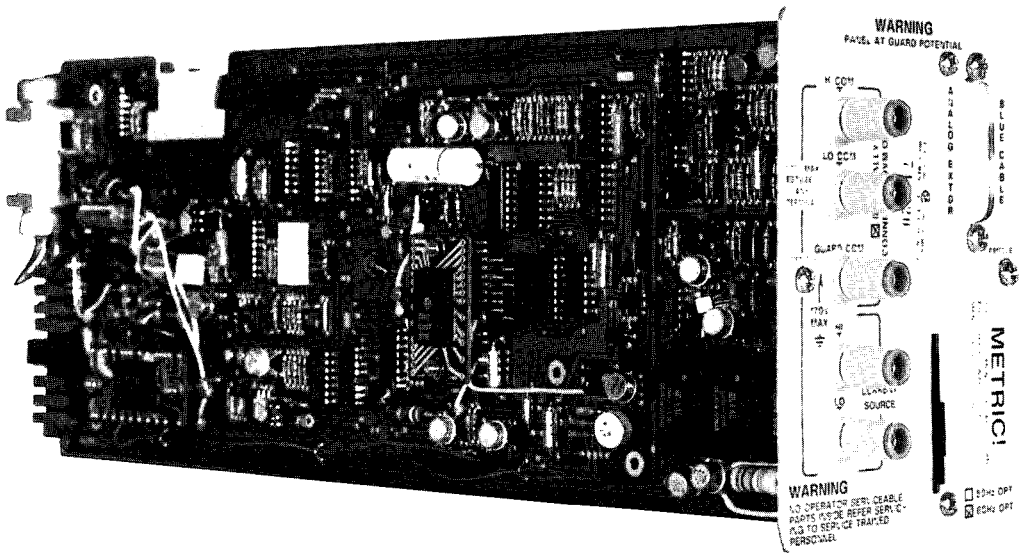
Plug-in assemblies are defined as analog or digital assemblies. Each plug-in assembly is identified by an assembly title and option number (010, 020, etc) or model number (44421A, 44422A, etc.). Descriptions of the plug-in assemblies plus the DVM (Option 001), the RS-232 interface (Option 232) and the 3498A Extender (Option 298) follow. See Appendix B, Specifications and General Information, for detailed specifications on these options.

OPTION 001

5½ Digit DVM and Current Source

Description

The 3497A DVM assembly is a systems quality, 5½ digit, 1 microvolt sensitive DC voltmeter which can measure voltages up to 119.9999 volts. The DVM assembly is fully guarded and uses an integrating A/D conversion technique which provides excellent common and normal mode noise reduction. The DVM includes a programmable three-level current source.



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Features

The DVM is a very versatile instrument which has a wide range of features to measure DC voltages and (with its built-in current source) to make resistance measurements in the milliohm range. DVM operating features are shown below.

Display	Select 3½, 4½, or 5½ digit display.
Ranges	4 DC voltage ranges (.10V, 1.0V, 10.0V and 100.0V) plus autorange and 20% overrange.
Autozero	Select autozero for more accurate readings or turn autozero off for faster reading rates.
Trigger Modes	Select internal, external, software or hold trigger modes.
Trigger Rates	Program the DVM to take 1-999 readings/trigger and/or to pause between readings or after a reading. Pause intervals range from 0-99.9999 sec in 100 μsec intervals.
Reading Rates	Read a maximum of 50 readings/sec in 5½ digit mode or a maximum of 300 readings/sec in 3½ digit mode.
Reading Storage	Store up to 100 readings in the 3497A internal buffer and transfer the stored readings to a controller in one of three formats.
Current Source	The DVM contains a built-in current source which can be programmed to output a 10μA, 100 μA or 1mA constant current.

Applications

Measure low level outputs of thermocouples, strain gauges and other transducers. For high level signals, the DVM can measure a maximum of 119.999 volts. Use the DVM simultaneously with its internal current source to make high accuracy four-terminal resistance measurements with 1 milliohm resolution.

The DVM can be programmed to delay before taking a reading, to take a number of readings per trigger and to store up to a hundred (5½ digit) readings.

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