SAC DC-59 free-standing Model 59 or 52 interfaces consist of two printed circuit boards and a power supply, housed in a small, attractive cabinet, for use with a Texas Instruments’ SR-59 or SR-52 hand-held programmable calculator. One cable is supplied which connects the interface to the calculator. The user’s calculator is modified by SAC to accept this cable.

Input from the user’s device to the interface is via a 50 pin connector. A 50 pin cable transition card is supplied for the user to construct a cable between the device to be monitored and the DC-59. This innovative approach expands the use of the calculator by providing a means of simulating keyboard closures on the calculator. The interface is designed to connect any standard output devices such as digital voltmeters, A/D converters, event counters, frequency meters, and strain gauges to the programmable calculators. The combination of TI’s vast library of programs and the speed and convenience of direct automatic data input to the calculator can significantly increase the utility of these electronic tools. SAC’s free standing interfaces represent the first non-keyboard entry devices for use with hand-held programmable calculators. The DC-59 allows the user to create his own solutions to problems by programming the TI calculator.

Specifications*

Components:  Cabinet  Interface Electronics  Power Supply  Calculator Cable  Calculator Modification  Interface Input  Connector

Physical:  Height: 5”  Width: 4”  Depth: 6”  Weight: 3 lbs.

Controls:  Power (On/Off).

Data Input:  Standard TTL/7400 series (Logic 1 equals high.)

35 Input lines including:  1 Data Ready line  1 Inhibit Data line  1 Signal Ground  Input may be 8 BCD digits or 5 octal digits or used as 24 simple contact closures.

Connector:  Input, 50 pin. Cable transition card supplied.

Data Input Rate:  Dependent upon calculator and particular program being run.

Power Required:  100-120 VAC 50-60 Hz.  200-240 VAC 50-60 Hz.

Ambient Temperature Range:  18°-50°C.

Ambient Humidity Range:  0-90% non-condensing.

*Specifications for sonic digitizer only. Refer to applicable Texas Instruments literature for programmable calculator specifications and list of available programs. Specifications subject to change without notice.

Each Texas Instrument SR-59 or SR-52 programmable calculator is modified for use in the SAC system by the addition of a simple, plug-in connector. The addition of the connector does not affect the functioning of the calculator in any way. The interface simulates key closings on the calculator to allow the rapid input of graphic data.