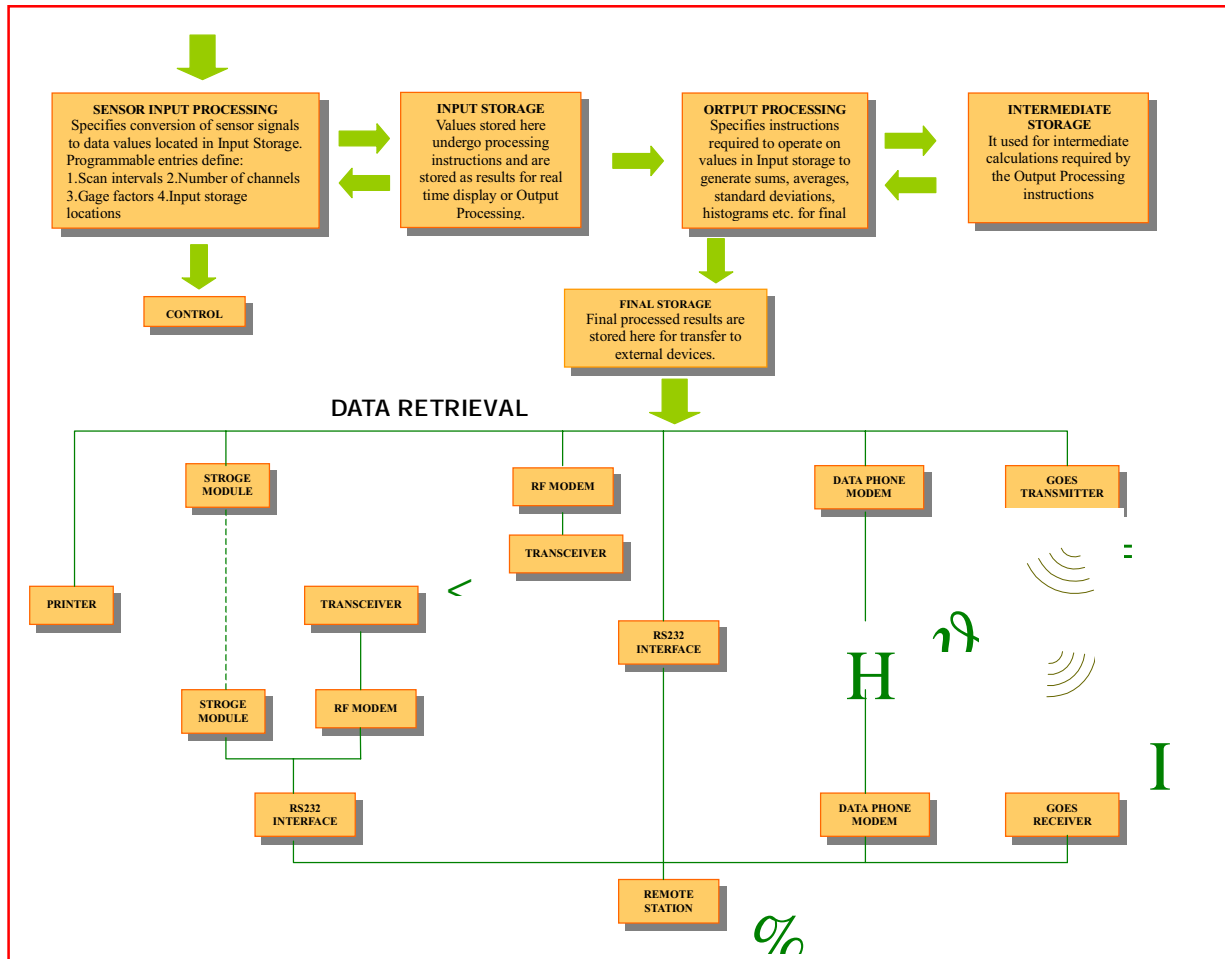


The GT-10 is a powerful and versatile multi-function data logger built around the Campbell Scientific CR10x Measurement and Control Modules. Deployed as a stand-alone data logger or as part of a network, the GT-10 system offers a wide range of data retrieval options, from removable storage modules to cellular telephone and radio.



A multitasking operating system allows simultaneous communication and measurement functions. The basic module has 12 analog channels which allows six differential channels to be scanned. Multiplexers provide additional inputs up to 192 analog or differential channels. Scan intervals are programmable. The GT-10 can transmit data to a computer from real-time graphic display while it continues to monitor sensors. At the same time, the GT-10 can compare incoming readings to specified alarm limits, trigger on-site alarms, and cause a voice modem to dial a series phone numbers or send email to deliver emergency messages.

Measurement and Control Module



Technical Specifications

CPU AND INTERFACE		EXCITATION OUPUT		POWER REQUIRE	
Processor:	Hitachi 6303	Range:	±2.5 V	Voltage:	9.6 ~16 V
Memory:	128K ROM 128K SRAM	Resolution:	0.67 mV	Batteries:	Any 12V battery can be connected
Baud Rate:	300,1200,9600,AND 76800 selectable	Output Current	±25 mA		
Clock Accuracy:	±1 min pre month				

Please refer www.campbellsci.com for the CR10x specifications detail.

DATA STORAGE AND PROCESSING

A logger can store 62200 data values and this can be expanded using external a solid state module to 180000 data values. A powerful instruction set, in standard software enables generation of sums, averages, standard deviations histograms etc. Data values can be compared to previous values, or to program threshold values, to calculate changes, or to actuate alarms, controls etc.

Programs may be entered into GT-10 or data retrieved though RS232 communication port which permits the rapid connection of a variety of communications hardware, including:

- CR10-KD keyboard and display
- IBM PC and compatibles
- Various modems
- RS232 compatible devices



Custom application software is recommended for critical applications where data generated by the data acquisition system must be presented and acted upon immediately. Written to user specifications by **GeoTech**, such software helps engineers identify and evaluate the severity of problems and make timely decision on the appropriate response.