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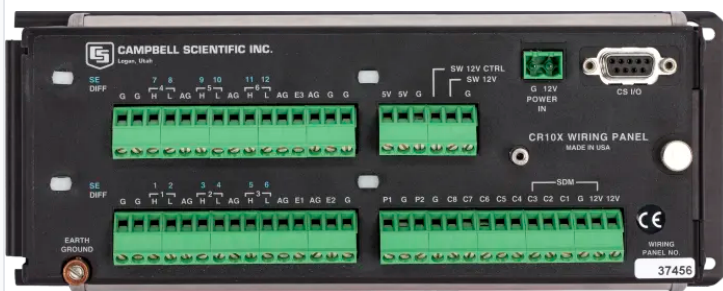
Data Sheet

August 15, 2026

CAMPBELL SCIENTIFIC

Campbell Scientific CR10 Measurement and Control Datalogger

Campbell Scientific CR10 Measurement and Control Datalogger The CR10 is the predecessor of the CR10X/CR1000. OEM Campbell CR10 page lists 12 single-ended (6 differential) analog inputs, 3 switched excitation outputs, 8 digital I/O control ports, 2 pulse-count channels, and 1 serial I/O port. Internal memory stores up to 29908 data points. Units after 1 December 1993 (SN greater than 19273) have a jumper for 2 or 4 kbyte program memory with the matching PROM. The CR10 is a CR10M measurement module plus CR10WP wiring panel. The CR10 is the predecessor of the CR10X/CR1000. OEM Campbell CR10 page lists 12 single-ended (6 differential) analog inputs, 3 switched excitation outputs, 8 digital I/O control ports, 2 pulse-count channels, and 1 serial I/O port. Internal memory stores up to 29908 data points. Units after 1 December 1993 (SN greater than 19273) have a jumper for 2 or 4 kbyte program memory with the matching PROM. The CR10 is a CR10M measurement module plus CR10WP wiring panel. Environmental, hydrologic, and industrial sensor measurement, timekeeping, reduction, storage, and control.



MODEL

**Campbell
Scientific CR10**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

CR10

LISTING

<https://aumictechlabs.com/products/cr10-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Campbell Scientific CR10 is a solid data logger designed for environmental monitoring and industrial data acquisition. It integrates multiple functionalities, including a micro-computer, clock, multimeter, calibrator, scanner, timer, frequency counter, and controller, into a compact, sealed stainless steel package. This device is engineered for long-term, unattended data collection in harsh environments, offering reliable performance across continents and even in specialized applications like space research. The CR10 supports a wide array of sensors and features programmable data processing capabilities, making it suitable for complex scientific and industrial applications.

Technical Specifications

- * Measurement Capabilities:
 - * 12 single-ended analog input channels (expandable to 6 differential channels).
 - * Each differential channel can be configured as two single-ended channels.
 - * Five software-selectable input voltage ranges: ± 2.5 mV, ± 7.5 mV, ± 25 mV, ± 250 mV, ± 2500 mV.
 - * Resolution: down to 0.33 μ V on the 2.5 mV range.
 - * 3 switched excitation outputs (active only during measurement, one at a time).
 - * 2 pulse counting channels.
 - * Maximum input frequency for pulse counting: 250 kHz.
 - * Minimum pulse width for pulse counting: 0.002 milliseconds.
 - * Supports various sensor types including thermistors, thermocouples, potentiometers, load cells, strain gauges, vibrating wires, and soil moisture blocks.
 - * Can interface with SDI-12 sensors (with specific PROM options).
 - * Analog voltage measurement accuracy: 0.2% of FSR, 0.1% of FSR (0 to 40°C).
 - * Input noise voltage: 0.82 μ V RMS (fast differential), 0.33 μ V RMS (slow differential).
- * Processing and Control:
 - * 8 input/output control ports, software-selectable as binary inputs or control outputs.
 - * Digital input high/low conditions: $3\text{V} < \text{high} < 5.5\text{V}$; $-0.5\text{V} < \text{low} < 0.8\text{V}$.
 - * Digital output high/low levels: high $5.0\text{V} \pm 0.1\text{V}$; low $< 0.1\text{V}$.
 - * Configurable as outputs for on/off control of external devices (set high, set low, toggle, pulse).
 - * Supports complex programming with a library of PROM-based instructions for measurement, data processing, data storage, and logical control.
 - * Standard instruction set includes measurement, processing/math, and program control instructions.
 - * Optional instructions available for specialized capabilities.
 - * Multi-tasking operating system allows simultaneous communication and measurement functions.
- * Memory and Data Storage:
 - * Internal memory stores up to 29,908 raw or processed data points in two Final Storage areas.
 - * 64K bytes of Random Access Memory (RAM).
 - * 32K ROM.
 - * Optional memory expansion via solid-state or SRAM card storage modules (e.g., SM192, SM716).
 - * CSM1 Card Storage Module and MCR1 Memory Card Reader for card-based storage.
 - * RAM cards range from 256k bytes to 2M bytes.
- * Communication Options:
 - * 9-pin Serial I/O Port for data storage, retrieval, and telecommunications peripherals.
 - * Supports various communication methods including multidrop modems (MD9), short-haul modems, radios, phone lines, and satellite.
 - * SC32A Optically Isolated RS232 Interface for computer/terminal communication.
 - * SC12 ribbon cable or SC12R rugged cable for connecting peripherals to the serial port.
 - * PC208 Datalogger Support Software for telecommunications, programming, and data processing.
 - * On-site data retrieval options: direct line, storage module, RAM cards, display, or printer.
 - * SDM (Synchronous Devices for Measurement) addressable peripherals can be connected to control ports for expanded capabilities.
- * Power Requirements:
 - * Powered by a 9.6 to 16 VDC supply.
 - * Can be powered by any 12VDC source.
 - * Switched 12V terminal available for powering external devices (limited to 600 mA).
- * Physical and Environmental:
 - * Rugged, sealed stainless steel package.
 - * Standard operating temperature range: -25°C to $+50^{\circ}\text{C}$.
 - * Extended operating temperature range (on request): -55°C to $+85^{\circ}\text{C}$.
 - * Weather-resistant enclosure.
 - * RF shielded and glitch protected electronics.
 - * "Watchdog"

CR10 Characteristics / Specifications

PARAMETER	VALUE
Model	CR10
Instrument Type	Measurement and control datalogger
Analog Inputs	12 single-ended (6 differential)
Switched Excitation	3 outputs
Control Ports	8 input/output
Pulse Channels	2
Serial Port	1 serial I/O
Internal Memory	up to 29908 data points
Program Memory	2 or 4 kbyte jumper after SN 19273 (1 Dec 1993)
Modules	CR10M measurement module plus CR10WP wiring panel
Successor	CR10X then CR1000
Manufacturer	Campbell Scientific
Literature	Campbell Scientific CR10 specification sheet
Functions	sensor measurement, timekeeping, reduction, storage, control
Form Factor	datalogger module plus wiring panel
Application Class	environmental and industrial monitoring
Documentation Type	OEM CR10 specifications sheet
System Role	standalone measurement controller
Use Case	remote sensor stations
Year Class	CR10 prior to CR10X
Channel Class	12 SE analog
Excitation Class	3 switched
Control Class	8 digital ports
Memory Class	29908 final storage locations
Panel Class	CR10WP

CR10 Specifications

PARAMETER	VALUE
Applications	Environmental, hydrologic, and industrial sensor measurement, timekeeping, reduction, storage, and control.
Key Features	12 SE / 6 DIFF analog inputs
Technical Specifications	Model: CR10

General Specifications & Supplementary Characteristics

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Panel Class	CR10WP Notes From Campbell Scientific CR10 product page (12 SE/6 DIFF, 3 excitation, 8 control, 2 pulse, 29908 values, SN>19273)

PARAMETER

VALUE

program-memory jumper). Analog accuracy and scan-rate tables are on the CR10 specifications sheet; do not invent uV or Hz figures.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Environmental, hydrologic, and industrial sensor measurement, timekeeping, reduction, storage, and control.	
Key Features	
12 SE / 6 DIFF analog inputs	
3 switched excitation outputs	
8 control ports and 2 pulse counters	
29908 internal data values	
CR10M plus CR10WP panel	
Technical Specifications	
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PARAMETER	VALUE
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Memory Class	29908 final storage locations
Panel Class	CR10WP

Notes
From Campbell Scientific CR10 product page (12 SE/6 DIFF, 3 excitation, 8 control, 2 pulse, 29908 values, SN>19273 program-memory jumper). Analog accuracy and scan-rate tables are on the CR10 specifications sheet; do not invent uV or Hz figures.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.