



Portable memory

Adds CompactFlash capability to CR1000 and CR3000 dataloggers

Overview

Campbell Scientific's CFM100 module stores the datalogger's data on a removable CompactFlash® (CF) card. The CFM100/CF card combination can be used to expand the datalogger's memory, and transport data/programs from the field site(s) to the office. The module connects to the 40-pin peripheral port on a CR1000 or CR3000 datalogger.

Benefits and Features

- › Used to expand data storage of our CR1000 and CR3000 dataloggers
- › Connects to the datalogger's peripheral port
- › Small, light-weight CF cards fit in your pocket for easy transport between the datalogger and PC

CF Cards

One Type I or Type II CF card fits into the module's slot. Campbell Scientific offers and recommends the CFMC256M, CFMC2G, and CFMC16G CF cards (see Ordering Information). To use the CFMC16G, the datalogger operating system must be OS 25 or later.

Only industrial-grade CF cards should be used with our products. Although consumer-grade cards cost less than industrial-grade cards, the consumer-grade cards are more susceptible to failure resulting in both the loss of the card and its stored data. Industrial-grade cards also function over wider temperature ranges and have longer life spans than consumer-grade cards.

Data Retrieval

Data stored on the card can be retrieved either through a communications link with the datalogger or by removing the card and carrying it to a computer. The computer can read the CF card either with the computer's PCMCIA slot and the CF1 adapter or the computer's USB port and the 010425 Reader/Writer.



Campbell Scientific offers 256 MB, 2 GB (shown), and 16 GB industrial-grade CF cards.

Ordering Information

CompactFlash® Module

CFM100 CompactFlash Module for Campbell Scientific CR1000 or CR3000 dataloggers.

Temperature Range Options (choose one)

-ST Tested -25° to +50°C

-XT Tested -55° to +85°C

Reader/Writer or Adapter

010425 USB 2.0 Reader/Writer for Memory Cards

CF1 SanDisk® CompactFlash Adapter for PCMCIA Slots

CompactFlash Cards

CFMC256M 256 MB Industrial-grade CompactFlash Memory Card. The card is formatted as FAT32.

CFMC2G 2 GB Industrial-grade CompactFlash Memory Card. The card is formatted as FAT32.

CFMC16G 16 GB Industrial-grade CompactFlash Memory Card. The datalogger operating system must be OS 25 or later to read this card.

Specifications

› CE Compliant Devices: CFM100, 010425 USB Reader/Writer

CFM100

- › Typical Access Speed: 200 to 400 kbits s⁻¹
- › Memory Configuration: User selectable; ring (default) or fill-and-stop
- › Power Requirements: 12 V supplied through the datalogger's peripheral port
- › CF Card Requirements: Industrial grade
- › Datalogger Operating System (OS): The CR1000 OS must be OS 4 or later. Both the CR1000 and CR3000 need OS 25 or later to read cards with more than 2 GB of storage.
- › Dimensions: 10.0 x 8.3 x 6.5 cm (4.0 x 3.3 x 2.6 in)
- › Weight: 133 g (4.7 oz)

Temperature Range

- › Standard: -25° to +50°C
- › Extended: -55° to +85°C

Typical Current Drain

- › RS-232 Port Active: 30 mA (writing to card); 20 mA (reading card)
- › RS-232 Port Not Active: 20 mA (writing to card); 15 mA (reading card)
- › Low Power Standby: 700 to 800 µA

Software Requirements

- › LoggerNet: Version 3.1.3 or later
- › PC400: Version 1.2.1 or later

CFMC256M, CFMC2G, and CFMC16G

- › Manufacturer: FMJ
- › Card Description: Industry standard Type I
- › Storage Capacity: 256 MB, 1 GB, 2 GB, or 16 GB
- › Operating Temperature: -40° to +85°C
- › Storage Temperature:
 - 55° to +125°C (CFMC256M, CFMC2G);
 - 50° to +100°C (CFMC16G)
- › Compliancy: RoHS
- › Card Format: FAT32
- › Dimensions: 4.28 x 3.64 x 0.33 cm (1.69 x 1.43 x 0.13 in.)
- › Weight: 10 g (0.35 oz)

010425 USB Reader/Writer

- › Dimensions: 8.9 x 6.9 x 1.9 cm (3.5 x 2.7 x 0.75 in)
- › Weight: 102 g (3.6 oz)
- › Operating Temperature: 0° to 60°C
- › Storage Temperature: -20° to 85°C

Minimum Computer Requirements

- › Windows 8, 7, Vista (SP1, SP2), XP (SP3), 2000 (SP4); MAC: OS X v. 10.6.x+; or Linux v. 2.6.x+
- › USB Port: USB 2.0 or 3.0

CF1 Adapter

- › Manufacturer: SanDisk
- › Dimensions: 8.6 x 5.4 x 0.5 cm (3.4 x 2.1 x 0.2 in.)