



CFM100 CompactFlash Module



Portable Memory

Adds CompactFlash capability to data loggers

Overview

The CFM100 stores the data logger's data on a removable CompactFlash (CF) card. The CFM100/CF card combination can be used to expand the data logger's memory, transport data/

programs from the field site(s) to the office, and upload power up functions. 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 data logger's peripheral port
- ▶ Small, light-weight CF cards fit in your pocket for easy transport between the data logger and PC

Detailed Description

One Type I or Type II CF card fits into the CFM100's card slot. Campbell Scientific offers and recommends the CFMC256M, CFMC2G, and CFMC16G CF cards (see Ordering Information). To use the CFMC16G, the data logger 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 stored on the card can be retrieved either through a communications link with the data logger 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 17752 Reader/Writer.

CardConvert is used to convert and save binary data from a CompactFlash card. CardConvert is included in our PC200W, PC400, LoggerNet, and RTDAQ datalogger support software.

Software Requirements

- ▶ LoggerNet version 3.1.3 or later
- ▶ PC400 version 1.2.1 or later



Data Logger Operating System (OS) Requirements

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.

Specifications

Storage Capacity	256 MB, 2 GB, or 16 GB
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 data logger's peripheral port
CF Card Requirements	Industrial-grade
Temperature Range	› -55° to +85°C (extended) › -25° to +50°C (standard)

Dimensions	› 25.2 x 10.2 x 7.1 cm (9.9 x 4.0 x 2.8 in.) of CR1000 with CFM100 attached › 10.0 x 8.3 x 6.5 cm (4.0 x 3.3 x 2.6 in.)
Weight	133 g (4.7 oz)

Typical Current Drain

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

For comprehensive details, visit: www.campbellsci.com/cfm100 



Campbell Scientific, Inc. | 815 W 1800 N | Logan, UT 84321-1784 | (435) 227-9120 | www.campbellsci.com
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