

Model CR1000 - Industrial Operator Interface With TFT Display

Installation Guide

- Configured using Crimson® 3.1 and 3.2 software
- Two serial communication ports:
(1 RS-232 and 1 RS-232/422/485)
- 10 Base T/100 Base-TX Ethernet port communicates with up to four protocols simultaneously
- Unit's configuration is stored in non-volatile flash memory
- SD card socket for loading database in field
- Industrial TFT LCD color display
- NEMA 4X/IP66 front panel
- Three front panel LED indicators
- Power unit from 24 $\pm$ 20% VDC
- Resistive analog touchscreen



GENERAL DESCRIPTION

The CR1000 is the perfect solution for applications that require the operator to monitor and control more than just a single device. With two serial ports and an Ethernet port, these HMI displays can connect to multiple serial and Ethernet devices simultaneously, including PLCs, motor drives, bar code scanners, etc.

The CR1000 performs the functions of a multiple protocol converter, using two high-speed serial communications ports and a 10/100 Base-TX Ethernet port. The Ethernet port supports up to four protocols simultaneously, allowing dissimilar Ethernet based products to communicate with one another. The SD card slot can be used to load the unit's configuration file, allowing configuration changes to be made and saved to the card for later transfer.

The CR1000 range of HMIs is programmed with Red Lion's Crimson 3.1 or 3.2 software. Crimson offers easy to use drag and drop communications configuration, while the embedded image library allows the programmer to create intuitive screens and prompts for the operator. The Crimson software is available as a no charge download from Red Lion's website.

SAFETY SUMMARY

All safety related regulations, local codes as well as instructions that appear in this document or on equipment must be observed to ensure personal safety and to prevent damage to either the device or equipment connected to it.

Do not use these products to replace proper safety interlocking. No software-based device (or any other solid-state device) should ever be designed to be responsible for the maintenance of personnel safety or consequential equipment not equipped with safeguards. Red Lion disclaims any responsibility for damages, either direct or consequential, that result from the use of this equipment in a manner not consistent with these specifications.



CONTENTS OF PACKAGE

- CR1000 Operator Interface
- Hardware packet and plate for mounting unit into panel
- Terminal block for connecting power
- Panel gasket

ORDERING INFORMATION

MODEL NO.	DESCRIPTION	PART NUMBER
CR1000	4.3" HMI with 2 Serial Ports, 1 Ethernet Port, and USB Device Port	CR100004000000010
	7.0" HMI with 2 Serial Ports, 1 Ethernet Port, and USB Device Port	CR100007000000010
	10.4" HMI with 2 Serial Ports, 1 Ethernet Port, and USB Device Port	CR100010000000010
SD	SD Card ¹	SDxxxxxx
CBL	Communications Cables and Adapter ¹	CBLxxxxxx
FILM	Protective Film for CR1000 04xxxx xxxxxx	GF0FILM04
	Protective Film for CR1000 07xxxx xxxxxx	GF0FILM07
	Protective Film for CR1000 10xxxx xxxxxx	GF0FILM10
CRA000	Adapter Plate from Kadet 7 to CR1000 07"	CRA000AD070700000
	Replacement Battery	CRA000BT3V0000000

¹ Contact your Red Lion distributor or visit our website for selection of SD cards, adapters and cables.

Toro Cr1000 Manual

**General Motors Corporation. GMC
Truck & Coach Division**



Toro Cr1000 Manual:

Toro-flow Diesel Engine General Motors Corporation. GMC Truck & Coach Division,1965 *Maintenance Manual*
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