CR1000 and CR3000 HMIs

Red Lion Automation Series



Operator Interface Panels

CR1000 and CR3000 HMIs provide industryleading protocol conversion and connectivity choices along with enhanced visual display features to deliver operator interface devices that easily scale and adapt as requirements change.

The CR1000 and CR3000 automation HMIs from Red Lion combine an everexpanding list of over 300 industrial drivers with the intuitive and powerful Crimson 3.1 development platform to create an operator experience designed to easily adapt as needs change and operations grow. Basic requirements for machine interface and protocol conversion are easily handled by the CR1000 products, while the CR3000 HMIs address more advanced needs with realtime data logging and a built-inweb server.



INDUSTRY APPLICATIONS

- > Factory Automation
- > OEM Machine Builders
- > Automotive
- > Food & Beverage
- > Water/Wastewater

PRODUCT HIGHLIGHTS

- > NEMA 4X, IP66 Front Panel Rating
- > Industrial Environmental Specifications
 - Wide operating temperature
 - High shock and vibration tolerance
 - CE, UL/cUL, UL/cUL Hazardous
- > Supports over 300 Industrial Drivers
- > SD Card for database upload/download
- > Built-InWeb Server for Remote Access*
- > Real-Time Data Logging*

FEATURES & BENEFITS

- > Full-color HMI touchscreen
 - A variety of 4.3" to 15" models with widescreen (model dependent) ensures the right fit for virtually any application
 - 16M colors

industrial

- > Industry-leading protocol conversion
 - Communicate with over 300 protocols
 - Easily convert between serial, USB and Ethernet devices
 - Convert up to 6 protocols simultaneously with CR1000 and up to 15 with CR3000
 - Manage multi-vendorenvironments with ease

automation

()

- > Powerful Integration Capabilities
 - Crimson 3.1 software enables point-and-click configuration
 - Updated 3D symbols and primitives create a modern operator experience
 - Ethernet, USB and serial ports make communication simple
 - Robust web server* provides remote access and control to reduce costly site visits
 - Send email and/orSMS notifications on alarm conditions*
 - Built-in data logging enhances troubleshooting and helps meet regulatory requirements
 - Automate population of data values using SQL Queries feature*

* Model dependent



CR1000 and CR3000 Specifications

COMMUNICATIONPROPERTIES NETWORK MEDIA **USB** Ports $10BaseT: \geq Cat3$ cable USB Device: 100BaseTX: \geq Cat5 cable CR1000 and CR3000 (All Models) - (1) USB Device **ENVIRONMENTAL** Type B adheres to USB specification 1.1 Operating Temperature: -10°C to 50°C USB Host: Storage Temperature: -20°C to 70°C CR3000 (4.3") - (1) USB Host port Operating Humidity: 0 to 85% (non condensing) CR3000 (7", 10.4", 15") - (2) USB Host ports Operating Altitude: Up to 2000 meters Type A adheres to USB specification 2.0 and supports full-speed Shock: 30 g per IEC 68-2-27 data transfers with hardware overcurrent protected (0.5 A max per Vibration: 2 g @ 5-500 Hz per IEC 68-2-6 port) Serial Ports for programmingor communications: Format/Baud rates **CERTIFICATION & COMPLIANCE** CE Approved independently configurable CR1000 (All) - One (1) RS232 and One (1) RS232/RS422/RS485 Immunity: IEC/EN 61000-6-2 for Industrial Locations selectable Emissions: IEC/EN 6100-6-4forIndustrial Locations; CISPR 11 Class A CR3000 (4.3") - Two (2) RS232 and One (1) RS422/RS485 Safety: IEC/EN 61010-1 CR3000 (7", 10.4", 15") - Two (2) RS232 and Two (2) RS422/RS485 **RoHS** Compliant Ethernet Ports: 1500 Vrms network isolation **UL** Listed CR1000 (All) - One (1) 10/100BASE-T(X) port (RJ45) Class I, Division 2, Groups A, B, C and D for CR3000 only CR3000 (4.3") - One (1) 10/100 BASE-T(X) port (RJ45) Type 4X Indoor / IP66 Enclosure rating (front face only) CR3000 (7", 10.4", 15") - Two (2) 10/100BASE-T(X) ports (RJ45) MECHANICAL POWER INPUT Construction: Polycarbonate enclosure with NEMA 4X/IP66 rating for CR1000 (All models) 24 VDC +/-20% indoor use when correctly fitted with the gasket provided. Installation CR3000 (All models) 10 to 30 VDC Category II, Pollution Degree 2. Must use a Class 2 circuit according to National Electrical Code (NEC), Weight: NFPA-70 or Canadian Electrical Code (CEC), Part I, C22.1 or a Limited CR1000 4.3" model - 15.0 oz (425 g) CR1000 7" model - 1.91 lb (868 g) Power Supply (LPS) according to IEC 60950-1or Limited-energycircuit CR1000 10.4" model - 3.08 lb (1.395 Kg) according to IEC 61010-1. Power connection via removable three CR3000 4.3" model - 1.00 lb (454 g) position terminal block. Battery: Lithium coin cell CR3000 7" model - 2.01 lb (913 g) CR3000 10.4" model - 3.16 lb (1.435 Kg) Typical lifetime of 5 years CR3000 15" model - 4.12 lb (2.155 Kg) POWER CONNECTION Specifications are subject to change. Visit www.redlion.net for more information.

High compression cage-clamp terminal block Wire Strip Length: 0.3" (7.5 mm)

Wire Gauge Capacity: 12 to 24 AWG (3.31 to 0.20 mm²) copper wire Torque: 4.4–5.3 inch-lbs (0.5–0.6 N–m)

CR1000 and CR3000 HMIs Ordering Guide

MODEL NUMBER*	DESCRIPTION	SIZE (IN.)	PIXELS	SERIAL/ ETHERNET PORTS	USB HOST	DATALOGGING & WEB SERVER	EXPANSION PORT	SD CARD SLOT
CR1000-04000-00210	4.3" HMI	4.3	480 x 272	2/1	0	No	No	Yes
CR1000-07000-00210	7" HMI	7	800 x 480	2/1	0	No	No	Yes
CR1000-10000-00210	10.4" HMI	10.4	800 x 600	2/1	0	No	No	Yes
CR3000-04000-00310	4.3" HMI with Data Logging and Web Server	4.3	480 x 272	3/1	1	Yes	Yes	Yes
CR3000-07000-00420	7" HMI with Data Logging and Web Server	7	800 x 480	4/2	2	Yes	Yes	Yes
CR3000-10000-00420	10" HMI with Data Logging and Web Server	10.4	800 x 600	4/2	2	Yes	Yes	Yes
CR3000-15000-00420	15" HMI with Data Logging and Web Server	15	1024 x 768	4/2	2	Yes	Yes	Yes

* Dashes in listed model numbers added to improve readability, and are not included in orderable part numbers.



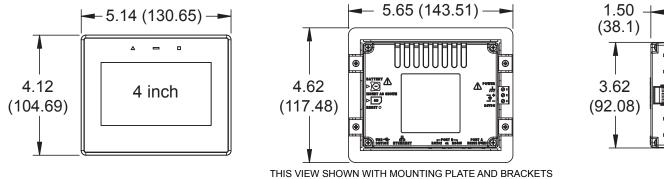
Intercontrol

IJsselburcht 26 6825 BP Arnhem Tel. +31 (0) 26 4425 204

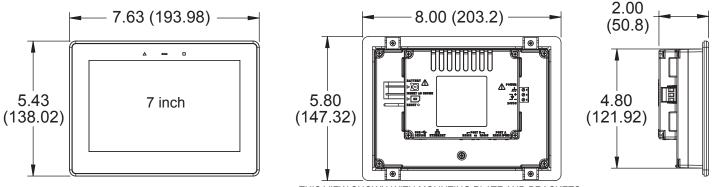
info@intercontrol.eu

CR1000 Dimensions in Inches (mm)

4.3" models

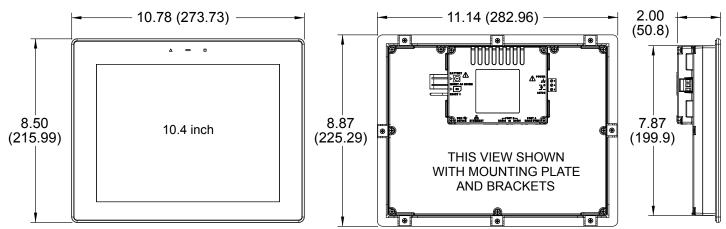




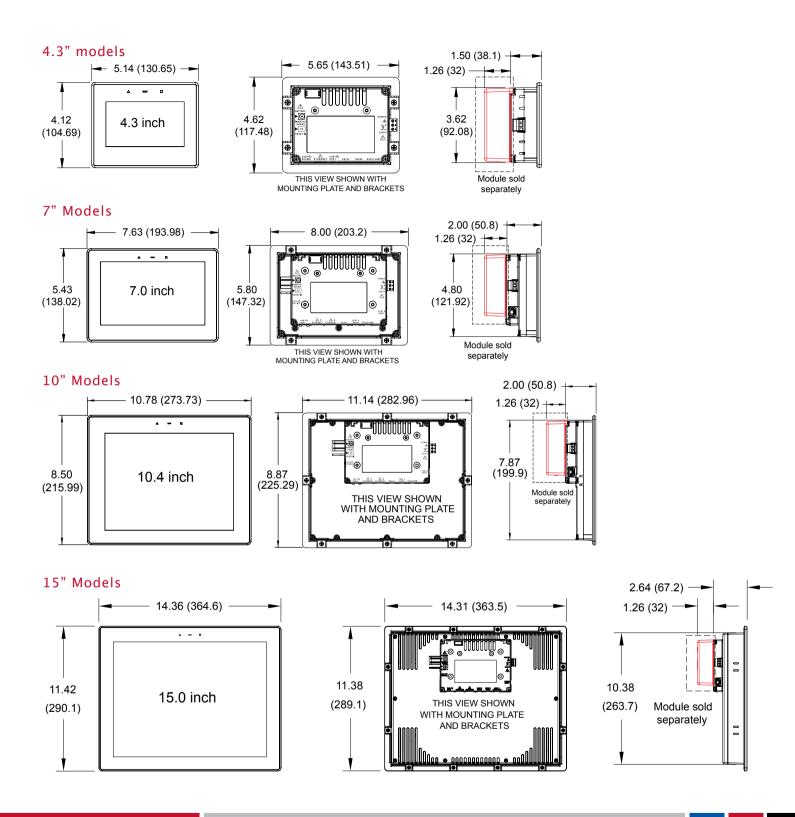


THIS VIEW SHOWN WITH MOUNTING PLATE AND BRACKETS

10" Models



CR3000 Dimensions in Inches (mm)





Americas sales@redlion.net

Asia-Pacific asia@redlion.net

Europe Middle East Africa europe@redlion.net +1(717) 767-6511 As global experts in communication, monitoring and control for industrial automation and networking, Red Lion has been delivering innovative solutions for over forty years. Our award-winningtechnology enables companies worldwide to gain real-timedata visibility that drives productivity. Product brands include Red Lion, N-Tronand Sixnet. With headquarters in York, Pennsylvania, the company has offices across the Americas, Asia-Pacific and Europe. For more information, please visit www.redlion.net. Red Lion is a Spectris company.

ADLD0478 080119 © 2019 Red Lion Controls, Inc. All rights reserved. Red Lion, the Red Lion logo, N-Tronand Sixnet are registered trademarksof Red Lion Controls, Inc.All other company and product names are trademarks of their respective owners.