RC4100G

Video Graphic Recorder

- **Full Color VGA Display**

- **Touch Screen Operation and Display Selection**

- **Up to 12 Universal Input Channels**

- **8 Pre-configured Displays for Data Presentation**

- **Vertical Recorder Trend Displays**

- **Versatile Alarm Summary Display**

- **3.5" Floppy Disk for Data Storage**

- **RS-485, MODBUS® RTU Communications**

- **Up to 12 Calculated Channels**

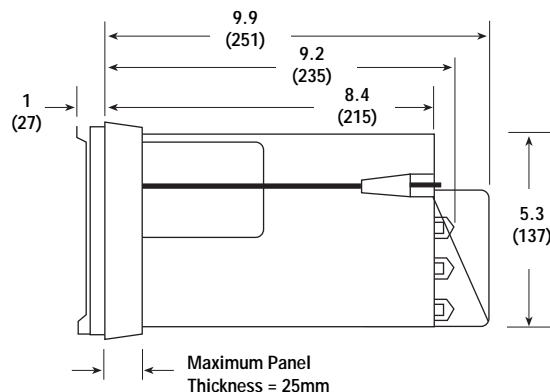- **PC Configuration Software Available**

Description

The RC4100G is a sophisticated paperless recorder that offers choice, not complexity. Choose from a range of pre-configured color displays that provide the exact process information you want, presented in the way you want it. Touch screen technology minimizes training and makes movement from display to display quick, easy and intuitive. Operating and maintenance costs are reduced by eliminating pens and charts; reliability is exceptionally high due to no moving parts. Long term data storage is available through a 3.5" floppy disk. Data from archives can be downloaded to a PC spreadsheet for historical analysis. DOS™ software is supplied to reformat compressed data.

Features

- Sophisticated alarm package offers four fully configurable alarms per channel.

- Configuration is password protected and accessed through the operator soft keys.

- A backlit, quarter VGA liquid crystal display using TFT (thin film transistor) technology provides exceptionally vivid color and clarity.

- Touch Screen technology, combining fixed and soft keys, permits quick, easy and positive selection and movement between displays.

- Trend data for display is stored in FLASH or battery-backed static RAM so no data is lost on power failure.

- Using the latest technology and individual A/D converters, the RC4100G offers high speed and high accuracy data measurement and 500ms update.

Dimensions

9.9 (251)
9.2 (235)
8.4 (215)
1 (27)
5.3 (137)

Maximum Panel Thickness = 25mm

All Dimensions in Inches (mm)

Represented By: Ross & Pethtel
Phone: 225-273-2202   Website

Chromalox®

RC4100G

Video Graphic Recorder *(cont'd.)*

Specifications

Environmental Performance	Operating Temperature	0-55°C (0-55°C with floppy disk drive)
	Humidity	5%-80% non-condensing
	Protection	Door and bezel, IP 65 (similar to NEMA 4)
Physical	Panel Size	5.7 x 5.7" (144 mm x 144 mm)
	Panel Cutout	5.4 x 5.4" (138 mm x 138 mm, +1, -0)
	Depth Behind Panel	9.9" (251 mm)
EMC and Safety	Electromagnetic Emissions	EN 50081-1
	Electromagnetic Susceptibility	EN 50082-2
	Safety	EN61010
	Vibration	IEC 1010 part 1, IEC 823
Power Requirements	Line Power	90-264 V, 45-65 Hz
	Consumption	100VA max., 20VA typical
	Preservation of active (RAM) data and a real time clock is assured with a NiCad battery.	
LCD Display	Type	Color TFT, quarter VGA with cold cathode backlighting
	Size	4.4 x 3.3″ (111 mm x 84 mm)
	Resolution	320 x 240 pixels
Touch Screen	Type	Color TFT, quarter VGA with cold cathode backlighting
	Size	4.4″ x 3.3″ (111 mm x 84 mm)
	Resolution	320 x 240 pixels
Update Rate	Inputs update each 500ms. Complete system update each second.	
Alarms	Number	4 alarms per channel
	Type	High, Low, Deviation, Rate of Change
Communications	Wiring	RS-422/485—4-wire
	Protocol	MODBUS® RTU
Data Storage	Standard	3.5″, 1.4M floppy disk
	Optional	Type III PCMCIA card drive, for use with Type I static RAM or Type III hard disk cards
Universal Inputs	Input Types	Thermocouple, RTD, Vdc, mAdc, Ohms
	Thermocouple Types	B, C, D, E, G2, J, K, L, N, R, S, T, U, Ni/NiMo, Platinel
	RTD Types	2 or 3 wire, Pt100, Pt100A, Pt1000, Ni100, Ni1000, JPT100, Cu10
	Contact Inputs Isolation	>10MOhm up to 1 V; 245k Ohm 1 to 10V (dc to 65 Hz; EN61010)

Ordering Information

Model	Description	Stock	PCN
4100G/04010/10000/00000/EE00/00992	4-Channel Recorder with 3.5″, 1.44 megabyte floppy disk. 90-264 Vac input.	NS	307985

The RC-4100G model specified is a 4-channel recorder with a 3.5″, 1.44 meg floppy disk. It accepts 90-264 Vac input and the features described on the previous page.

Peripherals

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