

Touchscreens by Control Technology Corp.

Model 43121 touchscreen

12.1" color display panel and touchscreen

- ▶ Bright 12.1" 65536 color TFT LCD display
- ▶ NEMA4/IP65 compliant front panel
- ▶ Built-in Flash memory, SD slot for data logging
- ▶ 3 USB ports, 3 RS232 and 2 RS485 ports
- ▶ Ethernet:
 - TCP/IP
 - Modbus TCP
 - Ethernet IP

4300

General specifications

Display size:	
Screen (diagonal)	12.1"
Screen resolution	800 x 600 px
Display type	65536 color TFT LCD
Touchscreen type	4-wire analog resistive
CPU	32-bit CISC CPU 500 MHz
System DRAM	256 MB DDR 400 MHz
Storage	256 MB D.O.M. on board, SD card slot
Construction	plastic molding housing
Hardware	
Sound output	Line out x 1/MIC x 1
Real time clock	built-in (CR2032 3V lithium battery)
Power:	
Input	24 VDC \pm 10%,
Consumption	800 mA @ 24VDC
Isolated power supply	output power 1.25 A max, 24 VDC \pm 1%
Environmental	
Temperature:	
Operating	0 - 45°C
Storage	-20 - 60°C
Relative humidity	10 - 90% @ 40°C, non-condensing
Dimensions	
Front dimensions	322 x 243 mm
Cutout dimensions	305 x 231 mm



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Additional specifications

Parameter	Value
LCD display	
Backlight	CCFL x 2
Viewing angle	55/65/65/65 (T/B/R/L)
Luminance (cd/m ²)	400
Contrast ratio	500:1
CCFL life	50,000 hr. minimum
Touchscreen	
Touch accuracy	2mm
Communications	
Ethernet	1 10/100 base-T
USB	2 USB 2.0, 1 USB Mini
Serial ports:	2 multi-function
COM1	RS232/RS485 (2- or 4-wire)
COM2	RS232
COM3	RS232/RS485 (2-wire)
Peripherals	USB barcode devices, mice, printers, keyboards and storage devices; wireless devices; SD card slot

Parameter	Value
Environmental	
Shock (operation)	10 -25 Hz (X, Y, Z direction 2G 30 minutes)
EMI	Complies with FCC Class A
CE	Complies with EN50081-2 and EN50082-2 standards
Front panel	NEMA4/IP65
EasyBuilder software specification	
Screen editor	EasyBuilder vEB8000 3.00 or later (requires Windows 2000 or XP)
Number of windows	up to 1989 windows
Number of objects	up to 500 per window, limited by memory
Text strings	limited only by memory
Graphic formats supported	BMP, GIF, JPG, PNG
Macro scripts	easy to use macro scripting language
System requirements (computer)	Pentium processor 90 MHz or faster, 16 MB RAM, 10 MB available hard disk space, minimum 800 x 600 resolution VGA, one RS232 port

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Summary of EasyBuilder objects

Bit lamp – place an indicator that is bit triggered

Word lamp – place an indicator that is Word triggered

Set bit – set a bit on a button press, button hold, window change, backlight activation or data entry.

Set word – set a word on a button press, button hold, window change, backlight activation or data entry.

Toggle switch – toggle a bit

Multistate switch – increment/decrement a word

Slider – change word value by dragging cursor

Function button – perform a system operation

Numeric input/display – change/display numeric data

ASCII input/display – change/display alphanumeric data

X, Y move animation – move an object via pixel coordinates

Spot move animation – move an object on a predefined path

Direct window – popup window on bit status change

Indirect window – popup window depending on Word's value

Bar graph – display data as changing rectangle

Alarm display – display predefined text strings in response to bit changes

Trend graph – plot active data on a trend

Data history display – show contents of data logger

Meter – display one of four different types of meters

Scrolling alarm – display predefined text strings in response to bit changes

Event display – display and log predefined text strings in response to bit or word changes

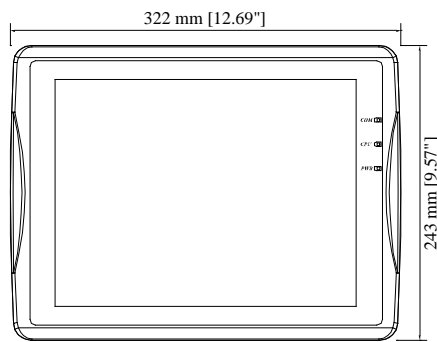
Data logging – move controller data to USB or CF card memory

PLC controls – change window, backlight control, macro execution, data transfer

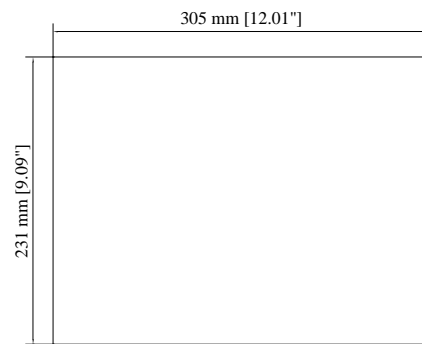
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Dimensions

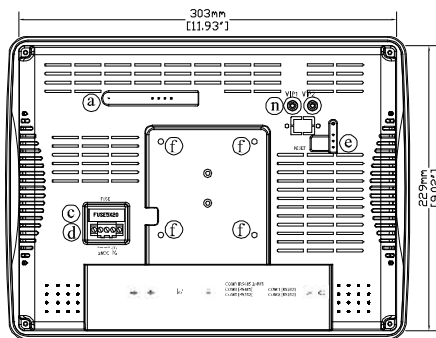
All dimensions are in mm [in].



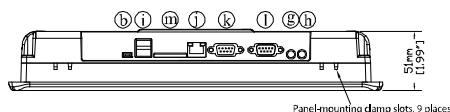
Front view



Cutout dimensions



Rear view



Bottom view

Rear and bottom views - port mapping

a	IDE interface	h	line out
b	mini USB	i	USB Host port x 2
c	fuse	j	Ethernet port
d	power connector	k	COM1 RS485, COM3 RS485, COM3 RS232
e	reset button	l	COM1 RS232, COM2 RS232
f	VESA 75mm screw holes	m	SD card slot
g	Mic in	n	Video Input Port x 2*

*Video available as option; contact sales for information.
Not included in standard configuration.

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