

# Touchscreens by Control Technology Corp.

## Model 43150 touchscreen

### 15.0" color display panel and touchscreen

- ▶ Bright 15.0" 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)	15.0"
Screen resolution	1024 x 768 px
Display type	65536 color TFT LCD
Touchscreen type	4-wire analog resistive
CPU	32-bit CISC 500MHz
System DRAM	256 MB on board DDR-400MHz SDRAM
Storage	256 MB D.O.M, 1 SD card slot
Construction	Aluminum enclosure. O ring seal on IP65 front panel
<b>Hardware</b>	
Sound output	1x audio line out, 1x MIC in
Real time clock	built-in (CR2032 3V lithium battery)
Power:	
Input	24 VDC ± 10%
Consumption	1.6 A @ 24 VDC
Isolated power supply	Output power 1.25 A max, 24 VDC ± 1%
<b>Environmental</b>	
Temperature:	
Operating	0 - 45°C
Storage	-20 - 60°C
Relative humidity	10 - 90%, non-condensing
<b>Dimensions</b>	
Front dimensions	366 x 293 mm
Cutout dimensions	352 x 279 mm



Documentation number: 950-431502-001

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## Additional specifications

Parameter	Value
<b>LCD display</b>	
Backlight	CCFL x 2
Viewing angle	55/65/65/65 (T/B/R/L)
Luminance (cd/m <sup>2</sup> )	350
Contrast ratio	550:1
CCFL life	50,000 hr. minimum
<b>Touchscreen</b>	
Touch accuracy	Active area length (X) ±2%, Width (Y) ±2%
<b>Communications</b>	
Ethernet	1 10/100 base-T
USB	2 USB 2.0 full speed Host port, 1 Mini USB port
Serial ports:	2 multi-function
COM1	RS232/RS485 (2- or 4-wire)
COM2	RS232
COM3	RS232/RS485 (2-wire)
Video input port	NTSC/PAL RCA x2
Peripherals	USB barcode devices, mice, printers, keyboards and storage devices; wireless devices; 1 SD card slot

Parameter	Value
<b>Environmental</b>	
Shock (operation)	10 -25 Hz (X, Y, Z direction 2G 30 minutes)
EMI	Complies with FCC Class A
CE	Complies with EN 55022: 1998+A1: 2000+A2: 2003 Class A, EN 61000-3-2: 2000+A2: 2005, EN 61000-3-3: 1995+A1: 2001, EN 55024: 1998+A1: 2001+A2: 2003
Front panel	NEMA4/IP65
<b>EasyBuilder software specification</b>	
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

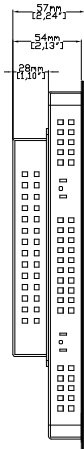
**Data logging** – move controller data to USB or CF card memory

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

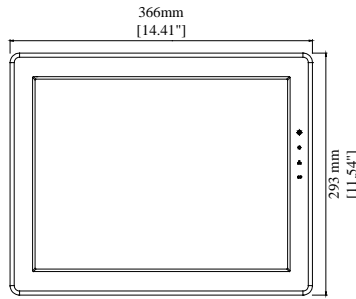
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## Dimensions

All dimensions are in mm [in].



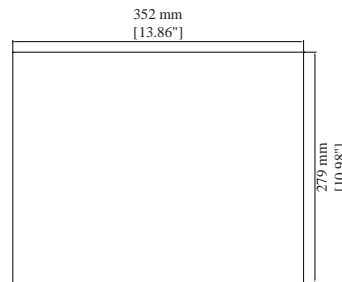
Side view



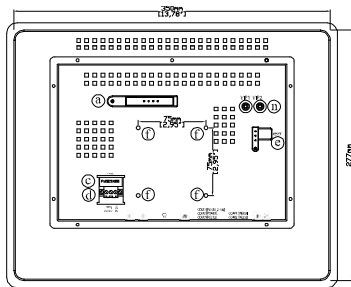
Front view



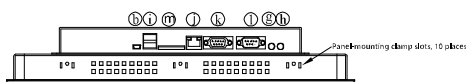
Side view



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

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