#### 1-800-633-0405

# **Atlas Industrial Flat Panel PC Monitors**

#### <u>ATM1500</u> / <u>ATM1500T</u>

The *Atlas* ATM1500/ATM1500T is a high performance 15" color TFT flat panel monitor specifically designed for harsh industrial environments including Class I Division 2, Class II Division 2 and Class III Hazardous Locations. The ATM1500/ATM1500T accepts standard analog VGA or digital DVI input and can display all VESA video modes up to 1280 x 1024 at 75Hz, 800:1 contrast with 16 million colors. An optional 5-wire analog touch screen (ATM1500T) is available that offers both RS-232 and USB interface capability. The monitor is housed in a heavy duty steel chassis with a powder coated machined aluminum bezel. The monitor is certified to NEMA 4/4X/12 standards and is UL/CUL listed. Panel mounting is simplified using convenient mounting clips instead of conventional studs. All monitors are shipped with a power input wiring receptacle, 6' VGA cable, 6' RS-232 cable (ATM1500T only), 2m USB Cable (ATM1500T only), mounting hardware and Quick Installation Guide\*.

#### \*Visit automationdirect.com for specific operating system requirements.



#### \$1,269.00 / \$1,523.00

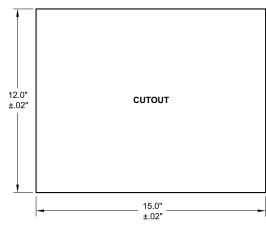


#### **Specifications**

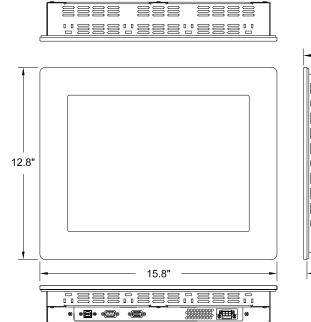
- 15" color TFT LCD display
- UL 508 and ANSI/ISA 12.12.01-2012 listed for Hazardous Locations: Class I, Division 2, Groups A, B, C, D; Class II, Division 2, Groups F and G and Class III hazardous locations when mounted in a NEMA Type 1, 4, 4X or 12 enclosure
- NEMA 4/4X/12 front bezel
- 2-year warranty
- Integral 100-240 VAC power supply
- Simplified installation with no studs
- Thin design only 2.4" behind bezel
- Accepts analog 15-pin Video input, digital input DVI-D
- VESA compliant all modes up to SXGA, 16 million colors
- Optional 5-wire resistive touch screen with both RS-232 and USB interface

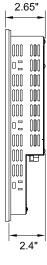
NOTE: Don't forget the optional cables shown on the Accessories page.

## **Mounting Cutout**

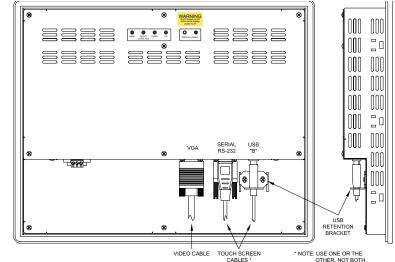


#### Dimensions





#### **Cable Connections**



Operator Interface

tHMX-3

# 1-800-633-0405 For the latest prices, please check AutomationDirect.com. Atlas Industrial Flat Panel PC Monitors

### **LCD Monitor Specifications**



LCD Monitor Specifications					
M1700T	<u>ATM1900</u> <u>ATM1900</u> T				
	1	9"			
,855.00	\$1,981.00	\$2,237.00			
		1			
TFT Active Matrix					
)	18.97" (481.8 mm)				
,	11.85" x 14.82"				
nm) SXGA, 1280	(301.0 mm x 376.4 mm) 280 x 1024				
XGA, 1024 x 768         SXGA, 1280 x 1024           Up to 1280 x 1024 @75Hz         Up to 1280 x 1024 @75Hz					
16M					
	27	0 Nit			
	270 Nit 2000:1				
	178	°/178°			
50,000 hrs, Minimum					
Analog 15-Pin D-Sub, DVI-D					
0.125" (3.2 mm) Lexan (polycarbonate), clear hard coat					
85" 72.4 mm)	15.70" x 18.66" x 2.95" (398.8 mm x 474.0 mm x 74.9 mm				
2.4 mm)		x 17.75"			
nm)	(378.5 mm x 450.9 mm)				
2.4" (61.0 mm) 2.6" (66.0 mm) 2.7" (68.6 mm)					
0.25" (6.4 mm) Machined Aluminum with recessed gasket pocket					
Dark Gray Textured Powder Coated					
16 Gauge CRS Steel           14.0 lbs (6.4 kg)         18.5 lbs (8.4 kg)         21 lbs (9.5 kg)					
		(9.5 kg)			
23.5 lbs (10.7 kg)		(11.8 kg)			
) Hz					
1A Maxir	imum				
	≤;	35 W			
°F)					
-20 to 60 °C (-4 to 140 °F)					
20% to 80% RH, noncondensing					
15g peak acceleration, 11msec					
0.006" peak to peak, 1g max					
Sea level - 10,000 feet					
eet					
NEMA 4/4X/12, IP65					
47 CFR, Part 15, Class A					
EN 55022: Class A, EN 61000-3-2: Class A, EN 61000-3-3, EN 61000-6-2, IEC 60950-1					
UL 508 Listed (file #E157382), ANSI/ISA 12.12.01-2012 Listed* (file #E200031), cUL Listed CSA C22.2, #142, CSA C22.2, #143*					
s 0	s A 0-3-3, EN 610 -2012 Listed* A C22.2, #143	s A 0-3-3, EN 61000-6-2, IEC 60950-1 -2012 Listed* (file #E200031),			

Temperature Code: T5

# Atlas Industrial Flat Panel PC Monitors

#### LCD Monitor Specifications (cont'd)

Touch Screen Specifications					
Part Numbers	<u>ATM1500T</u>	<u>ATM1700T</u>	<u>ATM1900T</u>		
TOUCH SCREEN (OPTIONAL)					
Touch Screen Technology	5- Wire Analog Resistive				
Interface	USB 1.1 and Serial RS-232				
Resolution	4096 x 4096				
Positional Accuracy (Maximum Error)	0.18" (4	0.19" (4.8 mm)			
Positional Accuracy (Standard Deviation of Error)	<0.08" (<2.0 mm)				
Screen Finish	Anti-Reflective, Surface Durability - 3H per ASTM D3363				
Chemical Resistance	Acetone, Methylene Chloride, MEK, Isopropyl Alcohol, Hexane, Turpentine, Mineral Spirits, Unleaded gasoline, Diesel fuel, Motor oil, Transmission fluid, Antifreeze, vinegar, ammonia-based glass cleaner.				
Electrostatic Protection	Per EN 61000-4-2, 1995, Withstands 20 discharges up to 15 kV				
Expected Life	>35,000,000 Activations				



## Supported PC Video Modes

Video Modes						
Mode	Dot Clock (MHz)	Horizontal Freq (KHZ)	Vertical Freq (Hz)	H Sync Polarity	V Sync Polarity	Display Modes for Best Image Quality
640 x 350 @ 70Hz	25.144	31.430	70.000	Р	N	
640 x 400 @ 70Hz	28.287	31.430	70.000	N	Р	
720 x 400 @ 70Hz	28.287	31.430	70.000	N	Р	
640 x 480 @ 60Hz	25.175	31.469	59.940	N	N	
640 x 480 @ 72Hz	31.500	37.861	59.940	N	N	
640 x 480 @ 75Hz	31.500	37.500	75.000	N	N	
800 x 600 @ 56HZ	36.000	35.156	56.250	Р	Р	
800 x 600 @ 60Hz	40.000	37.879	60.317	Р	Р	
800 x 600 @ 72Hz	50.000	48.077	72.188	Р	Р	
800 x 600 @ 75Hz	49.500	46.875	75.000	Р	Р	
1024 x 768 @ 60Hz	65.000	48.363	60.005	N	N	ATM1500/ATM1500T
1024 x 768 @ 70Hz	75.000	56.476	70.070	N	Р	ATM1500/ATM1500T
1024 x 768 @ 75Hz	78.750	60.023	75.030	Р	Р	ATM1500/ATM1500T
1280 x 1024 @ 60Hz	108.000	63.981	60.020	Р	Р	ATM1700/ATM1700T ATM1900/ATM1900T
1280 x 1024 @ 75Hz	135.000	79.976	75.035	Р	Р	ATM1700/ATM1700T ATM1900/ATM1900T

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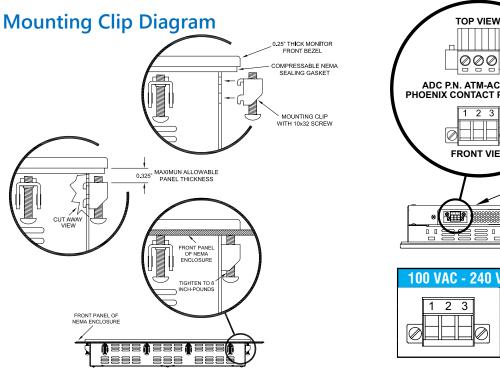
# Mounting clip installation

To install the monitor, make a cutout (according to the cutout diagram for the respective monitor) through one of the walls of your NEMA enclosure. Next, hold the monitor in place and install the mounting clips. The monitor uses "U"-shaped clips and a special gasket to achieve a proper seal. Tighten the clips to the point where the back of the monitor's bezel just begins to contact the front of the NEMA enclosure. The use of an adjustable torque driver is recommended. The screws should be tightened to 8 inch-pounds. Tighten the clips in a cross pattern to develop an even pressure on the sealing gasket. DO NOT OVERTIGHTEN AS DAMAGE CAN RESULT, CAUSING LOSS OF SEALING INTEGRITY.

#### **Connecting power**

The monitor is powered from 100-240 VAC, 50/60 Hz. Power is connected to the monitor through a removable Phoenix Contact plug (ADC P.N. ATM-AC-CON or Phoenix Contact P.N. 1777992) that allows for screw termination of field wiring. The use of 18 AWG or greater (12 AWG maximum wore) wire is recommended. Connect the field wiring according to the appropriate table below. After the connections are made, make sure the power cnoconne screws (the two screws shown in the "Front View" below) are securely tightened. This will prevent the plug from pulling out.

#### **Power Wiring Diagram**



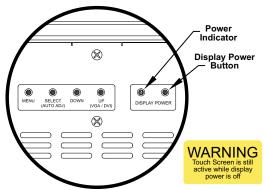
#### 000 ADC P.N. ATM-AC-CON or PHOENIX CONTACT P.N. 1777992 Plug Retention Screws 1 2 3 FRONT VIEW Powe Connection Label **....**): ()): () • • • • • • • 100 VAC - 240 VAC INPUT (1.0 Amps Min) PIN No. Definition AC Line Input 1 2

3

## Setting the On-Screen Display (OSD) controls

The On Screen Display (OSD) controls are used for making adjustments to the monitor's settings and are located on the back of the monitor. They consist of a single LED and five pushbuttons (functions are described in Chapter 3 of the respective monitor's Hardware User's Guide) downloadable from the Online Documentation area of the AutomationDirect Web site.

## **OSD** Controls



#### **OSD** Main Menu Display

MAIN MENU
BRIGHTNESS/CONTRAST
BGB COLOR
POSITION
SETUP SETUP
<u>∏</u> EXIT
1280X1024 63.9KHZ/60HZ

www.automationdirect.com

#### **Operator Interface** tHMX-6

AC Neutral Return

Protective Earth Ground

### **Accessories & Replacement Parts**

Part Number	Description	Price
ATM-CBL-VGA10	10 ft. 15-pin coaxial VGA cable. Connects any Atlas monitor to a standard VGA card.	\$68.00
ATM-CBL-VGA25	25 ft. 15-pin coaxial VGA cable. Connects any Atlas monitor to a standard VGA card.	\$145.00
ATM-CBL-VGA50	50 ft. 15-pin coaxial VGA cable. Connects any Atlas monitor to a standard VGA card.	\$206.00
ATM-CBL-DV3M	10 ft. (3 meter) DVI (type D) video cable. Connects M1700 and M1900 to a standard DVI-D port. DVI cables provide a higher bandwidth video interface than the VGA cables.	\$107.00
ATM-CBL-10	10 ft. serial communication cable. Connects Atlas monitor to std. 9-pin RS-232 port.	\$38.00
<u>ATM-CBL-25</u>	25 ft. serial communication cable. Connects Atlas monitor to std. 9-pin RS-232 port.	\$68.00
ATM-CBL-50	50 ft. serial communication cable. Connects Atlas monitor to std. 9-pin RS-232 port.	\$101.00
<u>USB-CBL-AB3</u>	3-ft (0.9 meter) Standard USB 2.0 cable with Standard-A plug to Standard-B plug. Suitable for all USB devices.	\$12.00
<u>USB-CBL-AB6</u>	6-ft (1.8 meter) Standard USB 2.0 cable with Standard-A plug to Standard-B plug. Suitable for all USB devices.	\$16.00
<u>USB-CBL-AB10</u>	10-ft (3 meter) Standard USB 2.0 cable with Standard-A plug to Standard-B plug. Suitable for all USB devices.	\$36.50
USB-CBL-AB15	15-ft (4.6 meter) Standard USB 2.0 cable with Standard-A plug to Standard-B plug. Suitable for all USB devices.	\$42.50
<u>ATM-AC-CON</u>	Replacement Power Wiring Connector for AC Powered Units.	\$19.00
<u>ATM-CLIP</u>	Replacement flat panel mounting clip kit. Package of 16 clips and screws.	\$45.00

USB-CBL-AB3



ATM-CBL-VGA10



ATM-CBL-VGA25



ATM-CBL-VGA50



ATM-CBL-DV3M



#### <u>ATM-CBL-10</u>



ATM-CBL-25



<u>ATM-CBL-50</u>



