

# Industrial Monitors and Touch Monitors

LCD Monitor Specifications		Heavy					Light	
Part Numbers	FPM-120	FPM-120-TS	FPM-150	FPM-150-TS	FPM-170	FPM-170-TS	FLI-150	FLI-150-TS
<b>Price</b>	<--->	<--->	<--->	<--->	<--->	<--->	<--->	<--->
<b>Screen Specifications (Active Matrix)</b>								
<b>Display Type</b>	TFT Active Matrix		TFT Active Matrix		TFT Active Matrix		TFT Active Matrix	
<b>Active Screen Area</b>	9.69" x 7.25"		11.97" x 8.98"		13.3" x 10.64"		11.97" x 8.98"	
<b>Colors Supported</b>	256,000		24bit (16M)		24bit (16M)		24bit (16M)	
<b>Brightness (Nits)</b>	300		450		250		250	
<b>Contrast Ratio</b>	200:1		300:1		500:1		300:1	
<b>Maxium Screen Resolution*</b>	VGA-SVGA		VGA-SXGA		VGA-SXGA		VGA-SXGA	
<b>Native Resolution (Best Picture)</b>	SVGA		XGA		SXGA		XGA	
<b>Auto Adjust Screen</b>	Yes		Yes on power up		Yes on power up		Yes on power up	
<b>Horizontal Viewing Angle (L/R)</b>	55/55		70/70		85/85		70/70	
<b>Vertical Viewing Angle (Up/Down)</b>	40/45		55/65		85/85		55/65	
<b>Video Interface</b>								
<b>VGA (HD-15F)</b>	YES							
<b>DVI (Digital Video Interface)</b>	NO		NO		YES		NO	
<b>NTSC</b>	NO		NO		YES		YES	
<b>S-Video</b>	NO		NO		YES		YES	
<b>Electrical Specifications</b>								
<b>Input Power</b>	20W		25W		30W		25W	
<b>Input Voltage</b>	120/240VAC Auto-switching		120/240VAC Auto-switching		120/240VAC Auto-switching		12VDC (nominal)	
<b>Current Draw Amps (At Voltage)</b>	.15 (120VAC)		.20 (120VAC)		.25 (120VAC)		2.0 (12VDC)	
<b>Back Light Lamp Life (Half-life hours)</b>	50K		35K		35K		35K	
<b>Mechanical Specifications</b>								
<b>NEMA 4/12 (installed in suitable enclosure)</b>	4/12		4/12		4/12		4/12	
<b>Chassis Depth</b>	2.38"		2.68"		2.68"		1.75"	
<b>Bezel OD</b>	15"x12.5"		17.56"x14.56"		17.56"x14.56"		16.21"x13.22"	
<b>Bezel Finish (All powder coated)</b>	Black textured		Black textured		Black textured		Gray and black	
<b>Bezel Construction</b>	.25" Machined Alum.		.25" Machined Alum.		.25" Machined Alum.		Steel	
<b>Chassis Construction</b>	16 Ga SS		16 Ga SS		16 Ga SS		16 Ga Steel	
<b>Recessed Cable Exit</b>	Yes		Yes		Yes		Yes	
<b>Environmental Specifications</b>								
<b>Operating Temp °C (°F)</b>	0 to 50 (32 to 122)		0 to 50 (32 to 122)		0 to 50 (32 to 122)		0 to 50 (32 to 122)	
<b>Storage Temp °C (°F)</b>	0 to 60 (32 to 140)		0 to 60 (32 to 140)		0 to 60 (32 to 140)		0 to 60 (32 to 140)	
<b>Operating/Storage Humidity (%)</b>	10 to 95		10 to 95		10 to 95		10 to 95	

\* Note: VGA: 640x480 pixels; SVGA: 800x600 pixels; XGA: 1024x768 pixels; SXGA: 1280x1024 pixels.

Touchscreen Specifications		All Touchscreen (-TS) Models	
<b>5 Wire Touch</b>	Yes		
<b>Touch Resolution (points/inch)</b>	400 ppi		
<b>Screen Finish</b>	Anti-reflective		
<b>Chemical Resistance</b>	Acetone, MEK, mineral sprits, Isopropyl alcohol, Methylene chloride		
<b>Estimated Life</b>	>35 million touches in one location		
<b>Computer Interface</b>	Serial RS-232 (standard)		
<b>Electrostatic Protection</b>	IEC 801-2		
Impact Window		All Non-touch Models	
<b>Material</b>	0.118" acrylic		
<b>Finish</b>	Anti-glare hard coat		

- PLC Overview
- DL05/06 PLC
- DL105 PLC
- DL205 PLC
- DL305 PLC
- DL405 PLC
- Field I/O
- Software
- C-more HMIs
- Other HMI
- AC Drives
- Motors
- Steppers/ Servos
- Motor Controls
- Proximity Sensors
- Photo Sensors
- Limit Switches
- Encoders
- Pushbuttons/ Lights
- Process
- Relays/ Timers
- Comm.
- TB's & Wiring
- Power
- Enclosures
- Appendix
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# Heavy Industrial LCD Monitors

12" FPM-120 & FPM-120-TS

17" FPM-170 & FPM-170-TS

15" FPM-150 & FPM-150-TS

(-TS models have resistive touchscreens)

**Side ventilation:** no top vents for better dust and spill protection with minimal heat build-up

**16-gauge stainless steel chassis**

provides corrosion resistance and extra strength. Flip-down back panel allows easy access for servicing the lamp.

**90-264 VAC input with power filter** and internal continuous duty power supply accommodates industrial power environment.

Easy external access to fuses

**Screen setup** via rear membrane keypad prevents tampering

**"Auto-adjust" button** on back panel keypad for easy display optimization

**Slim profile and recessed cable connections** don't waste your panel space

Plenty of flange clearance

**Units have pressed-in studs and heavy-duty machined aluminum bezel** with powder coat finish. Solid bezel doesn't flex and compromise moisture seal. Attractive polymer finish is resistant to scratches and chemicals.

**Premium viewing angles:**

15" has 70°/70° horizontal, 55°/65° vertical  
12.1" has 55°/55° horizontal 40°/45° vertical  
*This allows everyone in the work area to read the display!*

**Auto-scaling, auto-adjusting**

(15" and 17" are VGA-SXGA, 12.1" is VGA-SVGA)  
Full screen display at your choice of resolution

**400 ppi, 5 wire, resistive touch-screen (optional):**

400 ppi allows fine-featured touch control; works with gloved hands and is the most durable and reliable in industrial environments.

**Three-year guarantee** on touch screen

Robust, flexible touchscreen drivers for WinXP, Win2000, WinNT, Win98, Win95 and DOS provided

**Software works on Com 1-4** to accommodate other applications

**UL, cUL, CE approved**



# Light Industrial LCD Monitors

15" FLI-150 & FLI-150-TS  
 (-TS models have resistive touchscreens)

**Pressed-in studs and 2-piece bezel** (solid steel plate with powder-coated, steel front panel). Solid bezel doesn't flex and compromise moisture seal. Steel front panel provides an industrial quality finish and an attractive appearance.

**No ventilation required;**  
keeps dust out

**16-gauge powder coated steel chassis** with a durable polymer finished steel provides corrosion resistance.

**Screen set-up** via rear membrane keypad prevents tampering.

**Slim design and recessed cable connections** save panel space.  
 (only 1.75" deep)

**External 12 VDC power supply required:** use DC power already in your panel, or buy our PS12-050D or PS-MON-A.

Plenty of flange clearance

**Excellent viewing angles:**  
 70°/70° horizontal, 55°/65° vertical  
 No need to crowd around the monitor!

**Auto-scaling , Auto-adapting**  
 (VGA-SXGA)  
 Full screen display at your choice of resolution

**400 ppi, 5 wire, resistive touch-screen (optional):**  
 400 ppi allows fine-featured touch control; works with gloved hands and is the most durable and reliable in industrial environments.

**Three-year guarantee** on touch screen

Robust, flexible touchscreen drivers for WinXP, Win2000, WinNT, Win98, Win95 and DOS provided.

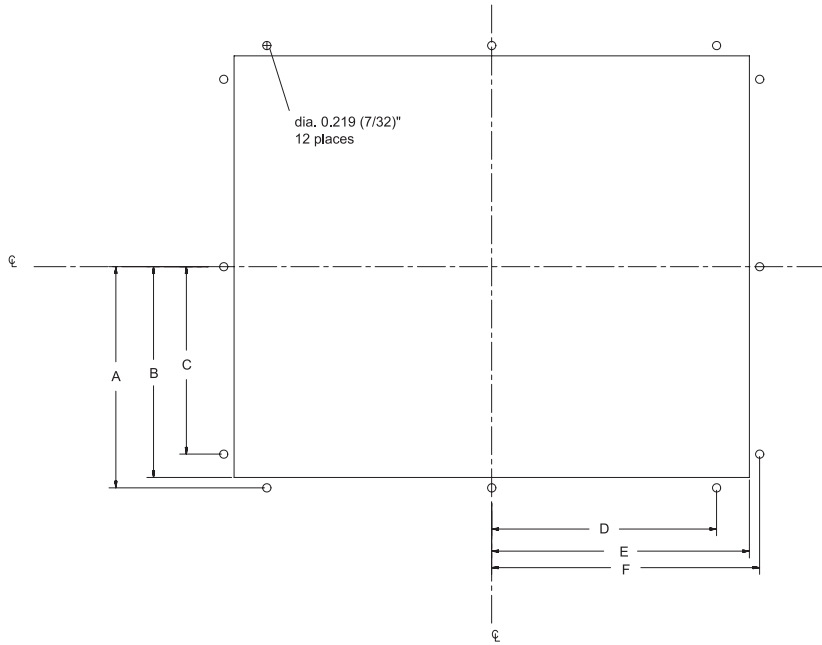
**Software works on Com 1-4** to accommodate other applications.

**UL, cUL, CE approved**

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DL05/06 PLC
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Field I/O
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<b>Other HMI</b>
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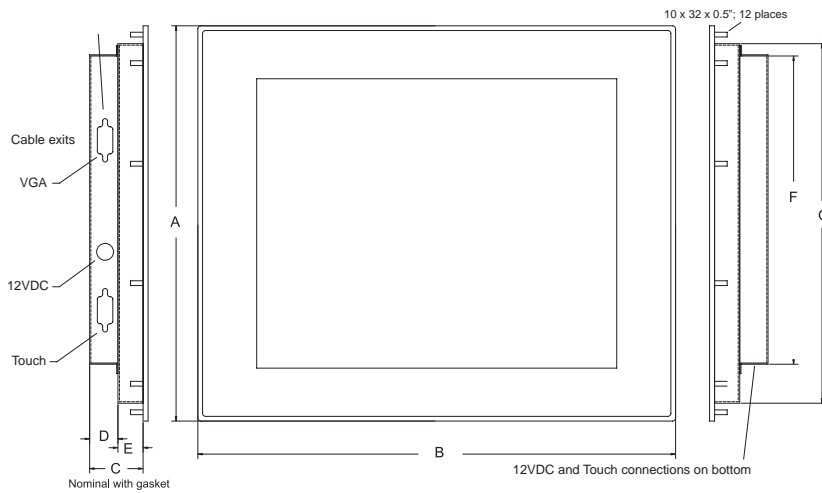
# Industrial LCD Monitor Dimensions

Template dimensions for FLI-150, FLI-150-TS, FPM-120, FPM-120-TS, FPM-150, FPM-150-TS, FPM-170 and FPM-170-TS models



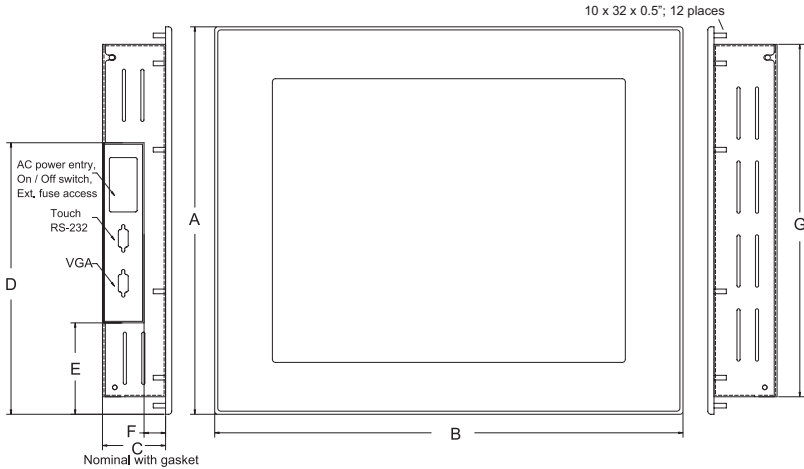
Cut Out Dimensions (inches)						
Part Number	A	B	C	D	E	F
<b>FLI-150</b> <b>FLI-150-TS</b>	6.25	6.03	5.00	6.00	7.53	7.75
<b>FPM-120</b> <b>FPM-120-TS</b>	5.90	5.63	5.00	6.00	6.88	7.15
<b>FPM-150</b> <b>FPM-150-TS</b>	7.00	6.78	4.00	5.00	8.28	8.50
<b>FPM-170</b> <b>FPM-170-TS</b>	7.00	6.78	4.00	5.00	8.28	8.50

Outside dimensions for FLI-150 and FLI-150-TS models



Outside Dimensions (inches)							
Part Number	A	B	C	D	E	F	G
<b>FLI-150</b> <b>FLI-150-TS</b>	13.22	16.21	1.75	1.06	0.69	8.03	11.02

# Industrial LCD Monitor Dimensions



## Outside dimensions for FPM-120, FPM-120-TS, FPM-150, FPM-150-TS, FPM-170 and FPM-170-TS models

Outside Dimensions (inches)							
Part Number	A	B	C	D	E	F	G
<b>FPM-120</b> <b>FPM-120-TS</b>	12.50	15.00	2.38	9.87	2.57	0.76	10.87
<b>FPM-150</b> <b>FPM-150-TS</b>	14.56	17.56	2.68	10.88	3.68	1.06	13.31
<b>FPM-170</b> <b>FPM-170-TS</b>	14.56	17.56	2.68	10.88	3.68	1.06	13.31