FPM Series

Industrial Flat Panel Touch-Screen Monitors

Features:

• Mounting Bezel is Sealed to NEMA 4/12

• Screen Setup is Handled Through an Easy-To-Use Rear-Mounted Membrane Keypad (tamperproof)

• Bezel is Finished With a Tough Baked-On Powder Coat Resistant to Scratches and Most Chemicals

• Compatible With Standard Computer Video Cards

• All Video Settings are Stored in Non-Volatile Memory and Retained During Power Loss

• Multi-Frequency Capability and Internal Scaling Engine Provide Sharp Full Screen Display of Standard PC Video Display Signals

• High Quality LCD Suitable for Harsh Lighting Conditions and Off-Angle Viewing

• Displays are Fitted With High Resolution Analog Resistive Touch Screen, Available Either as a Serial RS-232 Interface or PC Bus Card

• Touch Screen Provides Mouse Emulation, Supporting Click, Double Click, and Click and Drag...With Right Click Functionality!

• Hinged Rear Panel for Easy Access During Service

• Stainless Steel Corrosion Resistance Chassis

• Bezel is Milled from .250"-thick 6061 Aluminum Plate.

• Wide Ranging (90-246 VAC) Auto Switching Industrial Grade Power Supplies.

Description:

Monitors for industrial computers have changed. Those big, clunky boxes are being replaced by slim-profile versions. These screens not only free up valuable benchtop or floor space, they also enhance the company's image with their leaner and cleaner high tech look. Kessler-Ellis Products offers a range of 7 different sizes to fit any space requirement — from a mini 6.4" up to a huge 20". These touch-screens are ruggedly constructed with a chassis of 16-gauge stainless steel, for NEMA-rated performance in harsh industrial environments. Operating temperature range is from 0 to 50° C and humidity levels of up to 95%. All models can be customized cosmetically to user requirements, including color match-ups and inclusion of company logos on mounting bezels.

Ordering Information

Part Number	Description
FPM-64T	6.4" TFT Display with Touch Screen
FPM-104T	10.4" TFT Display with Touch Screen
FPM-120T	12.1" TFT Display with Touch Screen
FPM-150T	15.1" TFT Display with Touch Screen
FPM-170T	17.1" TFT Display with Touch Screen
FPM-180T	18.1" TFT Display with Touch Screen

The above products include VGA cable, DB9 cable for touchscreen, power cable, and CD with ELO touchscreen driver. These displays all feature a heavy black power coated aluminum bezel and premium high brightness and high viewing angle TFT display panels. Mounting is by means of studs on the back of the bezel, nuts included.

GENERAL SPECIFICATIONS							
	FPM-64 / 64T 6.4" Display	**FPM-104 / 104T** 10.4" Display	**FPM-120 / 120T** 12.1" Display	**FPM-140 / 140T** 14" Display	**FPM-150 / 150T** 15" Display	**FPM-180 / 180T** 18" Display	**FPM-200 / 200T** 20.1" Display
LIQUID CRYSTAL DISPLAY (LCD)							
Display Size/Type	6.4" Diagonal/TFT Active Matrix	10.4" Diagonal/TFT Active Matrix	12.1" Diagonal/TFT Active Matrix	14" Diagonal/TFT Matrix	15.1" Diagonal	18.1" Diagonal	20.1" Diagonal/TFT Active Matrix
Active Area	5.14" (h) x 3.82" (v)	8.31" (h) x 6.25" (v)	9.69" (h) x 7.25" (v)	11.19" (h) x 8.39" (v)	11.97" (h) x 8.98" (v)	14.135"(h) x 11.310"(v)	15.72" (h) x 12.58" (v)
Pixel Format	640(h) x 480(v)		800(h) x 600(v)	640(h) x 480(v) 800(h) x 600(v) 1024(h) x 768(v)		640(h) x 480(v) 800(h) x 600(v) 1024(h) x 768(v) 1280(h) x 1024(v)	
Brightness	300 Nits Typical	400 Nits Typical	300 Nits Typical	200+ Nits Typical	200 Nits Typical		150 Nits Typical
Contrast Ratio	100:1	300:1	200:1	150:1	>150:1	300:1	150:1
Viewing Angle (horiz.)	70/70 Deg.	60/60 Deg.		70/70 Deg.			80/80 Deg.
Viewing Angle (Vert.)	70/40 Deg.	45/55 Deg.	50/40 Deg.	70/70 Deg.	60/60 Deg.		80/80 Deg.
Back Light Life	50,000 Hours (half life)						
Colors Supported	256,000				16 Million with color enhancement on (Standard)	16 Million with color enhancement (standard controller function)	16 Million (full color analog LCD)
MECHANICAL CONSTRUCTION							
Bezel Outside Dim.	9.5" (h) x 7.0" (v)	13.13" (h) x 11.08" (v)	15" (h) x 12.5" (v)	16.5" (h) x 13.64" (v)	17.564"(h) x 14.563"(v)	18.927"(h) x 14.563"(v)	21.5" (h) x 18.3" (v)
Bezel Material	.250" 6061 Aluminum						
Bezel Finish	Black Textured Powder Coat						
Front End Const.	NEMA 4/12						
Chassis Depth (Behind Cabinet Door)	2.125"	1.125"	4.125"				
Chassis Construction	.16 Ga. Stainless Steel						
ENVIRONMENTAL							
Operating Temp.	0-50° C						
Storage Temp	0-60° C						
Operating Humidity	10-95% Non Condensing						
Storage Humidity	10-95% Non Condensing						
ELECTRICAL							
Input Voltage	12 VDC Nominal		90-264 VAC Auto Switching				
Input Wattage	25 Watts Typical		35 Watts Typical			50 Watts Typical	60 Watts Typical (75 Watt Power Supply)
TOUCH SCREEN							
Analog Resistive	5 Wire						
Touch Screen Res.	400 ppi						
Screen Finish	Anti Reflective						
Chemical Resistance	Acetone, MEK, Mineral spirits, Isopropyl alcohol, Methylene chloride						
Estimated Life	>35 Million touches in one location						
Computer Interface	Serial RS-232 (Standard) PC-Bus (optional)						
Electrostatic Protection	IEC-801-2						