

FPM Series

Industrial Flat Panel Touch-Screen Monitors

Features:

- High Quality and Reliability at a Low Price
- Mounting Bezel is Sealed to NEMA 4/12 and IP65
- 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 VGA Ports
- 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 TFT-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 USB
- 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
- Every Unit is 100% Inspected and Tested
- Stainless Steel Chassis
- Bezel is Milled from 0.250" thick 6061 Aluminum Plate
- Wide Ranging (90-246 VAC) Auto Switching Industrial Grade Power Supplies
- 2 Year Limited Warranty



General Description:

Monitors for industrial computers have changed. Those big, clunky boxes are being replaced by slim-profile versions. These screens free up valuable internal panel space and eliminate the need for deep enclosures, they also enhance the company's image with their leaner and cleaner high tech look. Kessler-Ellis Products offers a range of 8 different sizes to fit any space requirement — from a mini 6.4" up to a huge 21". These touch-screens are ruggedly constructed with a chassis of 16-gauge stainless steel, for 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.

General Specifications

FPM-64/64T (6.4" Display)

Video Range	VGA
Resolution	640 x 480
Brightness	300 (500 nit pending)
Contrast Ratio	200:1
Colors	256,000
Viewing Angle U/D	70°/ 40° (Can be changed to 40°/ 70°)
Viewing Angle L/R	70°/ 70°
Touchscreen Type	Analog Resistive
Bezel / Finish	Aluminum With Black Textured Powder Coat (others available)
Main Chassis	16ga. Stainless Steel
Power	12 VDC
Screen Controls	Rear Mounted (Remote Optional)
Outside Dimension	9.5"(w) x 7.0"(h)
Installed Depth	3.5" (Note: Standard cable exit to Left. Right exit available)
Temperature	Storage: 0-60°C / 32-140°F Operating: 0-50°C / 32-122°F

FPM-120/120T (12" Display)

Video Range	VGA, SVGA
Resolution	640 x 480 (800 x 600 optional)
Brightness	300 Nits
Contrast Ratio	200:1
Colors	256,000
Viewing Angle U/D	45°/ 55°
Viewing Angle L/R	60°/ 60°
Touchscreen Type	Analog Resistive
Bezel / Finish	Aluminum With Black Textured Powder Coat (others available)
Main Chassis	16ga. Stainless Steel
Power	90~264 VAC 50/60 Hz.
Screen Controls	Rear Mounted (Remote Optional)
Outside Dimension	15"(w) x 12.5"(h)
Installed Depth	< 2.5"
Temperature	Storage: 0-60°C / 32-140°F Operating: 0-50°C / 32-122°F

FPM-84/84T (8.4" Display)

Video Range	VGA
Resolution	640 x 480
Brightness	450 Nits
Contrast Ratio	500:1
Colors	256,000 (6 bits per color)
Viewing Angle U/D	40°/ 70°
Viewing Angle L/R	55°/ 55°
Touchscreen Type	Analog Resistive
Bezel / Finish	Aluminum With Black Textured Powder Coat (others available)
Main Chassis	16ga. Stainless Steel
Power	12 VDC
Screen Controls	Rear Mounted (Remote Optional)
Outside Dimension	10.624"(w) x 8.939"(h)
Installed Depth	2.0"
Temperature	Storage: 0-60°C / 32-140°F Operating: 0-50°C / 32-122°F

FPM-154/154T (15.4" Display)

Video Range	VGA, SVGA, XGA, SXGA
Resolution	Up to 1280 x 1024
Brightness	450 Nits
Contrast Ratio	300:1
Colors	16 Million (8 bits per color)
Viewing Angle U/D	60°/ 65°
Viewing Angle L/R	70°/ 70°
Touchscreen Type	Analog Resistive
Bezel / Finish	Aluminum With Black Textured Powder Coat (others available)
Main Chassis	16ga. Stainless Steel
Power	90~264 VAC 50/60 Hz.
Screen Controls	Rear Mounted (Remote Optional)
Outside Dimension	17.56" (w) x 14.56" (h)
Installed Depth	2.5"
Temperature	Storage: 0-60°C / 32-140°F Operating: 0-50°C / 32-122°F

FPM-104/104T (10.4" Display)

Video Range	VGA, SVGA
Resolution	640 x 480 (800 x 600 optional)
Brightness	400 Nits
Contrast Ratio	300:1
Viewing Angle U/D	45°/ 55°
Viewing Angle L/R	60°/ 60°
Touchscreen Type	Analog Resistive
Bezel / Finish	0.250" Thick 6061 Aluminum / Black Textured Powder Coat
Main Chassis	16ga. Stainless Steel
Power	12 VDC
Screen Controls	Rear Mounted (Remote Optional)
Outside Dimension	13.130"(w) x 11.080"(h)
Installed Depth	3.75"
Temperature	Storage: 0-60°C / 32-140°F Operating: 0-50°C / 32-122°F

FPM-170/170T (17" Display)

Video Range	VGA, SVGA, XGA, SXGA
Resolution	Up to 1280 x 1024
Brightness	250 Nits
Contrast Ratio	500:1
Colors	16 Million (8 bits per color)
Viewing Angle U/D	85°/ 85°
Viewing Angle L/R	85°/ 85°
Touchscreen Type	Analog Resistive
Bezel / Finish	Aluminum With Black Textured Powder Coat (others available)
Main Chassis	16ga. Stainless Steel
Power	90~264 VAC 50/60 Hz.
Screen Controls	Rear Mounted (Remote Optional)
Outside Dimension	17.56" (w) x 14.56" (h)
Installed Depth	2.625"
Temperature	Storage: 0-60°C / 32-140°F Operating: 0-50°C / 32-122°F



**Quality and Reliability
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General Specifications

FPM-190/190T (19" Display)

Video Range	VGA, SVGA, XGA, SXGA
Resolution	Up to 1280 x 1024
Brightness	250 Nits
Contrast Ratio	500:1
Hot Key Functions.....	1 Button Quick Switching Between Functions and Inputs
Picture in Picture	3 Sizes
Colors.....	16 Million (8 bits per color)
Viewing Angle U/D	88°/ 88°
Viewing Angle L/R.....	88°/ 88°
Touchscreen Type	Analog Resistive
Bezel / Finish	Aluminum With Black Textured Powder Coat (others available)
Main Chassis	16ga. Stainless Steel
Power	90~264 VAC 50/60 Hz. / 24 VDC
Screen Controls	Rear, (Remote Optional)
Outside Dimension.....	19.0" (w) x15.719" (h)
Installed Depth	3.0" Nominal
Temperature	Storage: 0-60°C / 32-140°F Operating: 0-50°C / 32-122°F

FPM-213/213T (21.3" Display)

Video Range	VGA, SVGA, XGA, SXGA, UXGA
Resolution	Up to 1280 x 1024
Brightness	250 Nits
Contrast Ratio	500:1
Colors.....	16 Million (8 bits per color)
Viewing Angle U/D	85°/ 85°
Viewing Angle L/R.....	85°/ 85°
Touchscreen Type	Analog Resistive
Bezel / Finish	Aluminum With Black Textured Powder Coat (others available)
Main Chassis	16ga. Stainless Steel
Power	120 / 240 VAC
Screen Controls	Rear Mounted (Remote Optional)
Outside Dimension.....	22.0" (w) x 17.75" (h)
Installed Depth	3.0"
Temperature	Storage: 0-60°C / 32-140°F Operating: 0-50°C / 32-122°F

FPM-191/191T (19" Display- High Bright)

Video Range	VGA, SVGA, XGA, SXGA
Resolution	Up to 1280 x 1024
Brightness	450 Nits
Contrast Ratio	600:1
Hot Key Functions.....	1 Button Quick Switching Between Functions and Inputs
DVI / S-Video / NTSC.....	Picture in picture support for camera inputs!
Picture in Picture	3 Sizes
Colors.....	16 Million (8 bits per color)
Viewing Angle U/D	88°/ 88°
Viewing Angle L/R.....	88°/ 88°
Touchscreen Type	Analog Resistive
Bezel / Finish	Aluminum With Black Textured Powder Coat (others available)
Main Chassis	16ga. Stainless Steel
Power	90~264 VAC 50/60 Hz. / 24 VDC
Screen Controls	Rear Mounted (Remote Optional)
Outside Dimension.....	19.0" (w) x15.72" (h)
Installed Depth	3.0" Nominal
Temperature	Storage: 0-60°C / 32-140°F Operating: 0-50°C / 32-122°F

Impact Window (applies to all displays)

Anti-glare	0.118" Optically correct anti-glare impact window
Finish	Hard coat finish for scratch resistance



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Standard FPM Configurations and Ordering Information

All FPM models include VGA cable, DB9 cable for touchscreen, power cable, and CD with ELO touchscreen driver. These displays all feature a heavy black powder 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.

Part Number	Description	VGA	SVG	XGA	SXGA
FPM-64	6.4" LCD Panel Mount	•			
FPM-64T	6.4" LCD Panel Mount w/ Touchscreen	•			
FPM-84	8.4" LCD Panel Mount	•			
FPM-84T	8.4" LCD Panel Mount w/ Touchscreen	•			
FPM-104	10.4" LCD Panel Mount	•			
FPM-104T	10.4" LCD Panel Mount w/ Touchscreen	•			
FPM-120	12.1" LCD Panel Mount	•	•		
FPM-120T	12.1" LCD Panel Mount w/ Touchscreen	•	•		
FPM-154	15.4" LCD Panel Mount	•	•	•	•
FPM-154T	15.4" LCD Panel Mount w/ Touchscreen	•	•	•	•
FPM-170	17.1" LCD Panel Mount	•	•	•	•
FPM-170T	17.1" LCD Panel Mount w/ Touchscreen	•	•	•	•
FPM-190	19" LCD Panel Mount	•	•	•	•
FPM-190T	19" LCD Panel Mount w/ Touchscreen	•	•	•	•
FPM-191	19" LCD Panel Mount	•	•	•	•
FPM-191T	19" LCD Panel Mount w/ Touchscreen	•	•	•	•
FPM-213	21.3" LCD Panel Mount	•	•	•	•
FPM-213T	21.3" LCD Panel Mount w/ Touchscreen	•	•	•	•

FPM Accessories

Stainless Bezel	304 Stainless Steel Bezel for NEMA4X
SVGA-25	25 Feet Long, High Frequency Video Cable
SVGA-50	50 Feet Long, High Frequency Video Cable
RS232-25	25 Feet Long, Serial Touch Cable
RS232-50	50 Feet Long, Serial Touch Cable



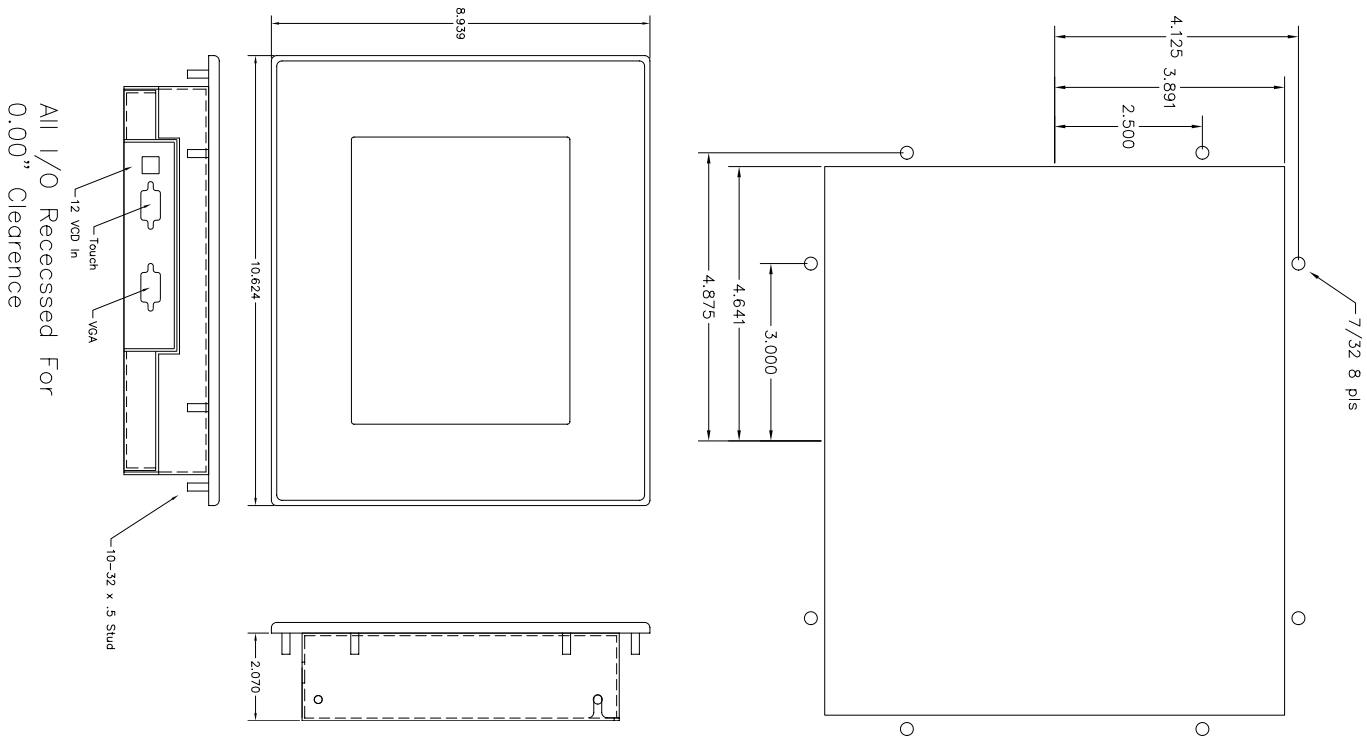
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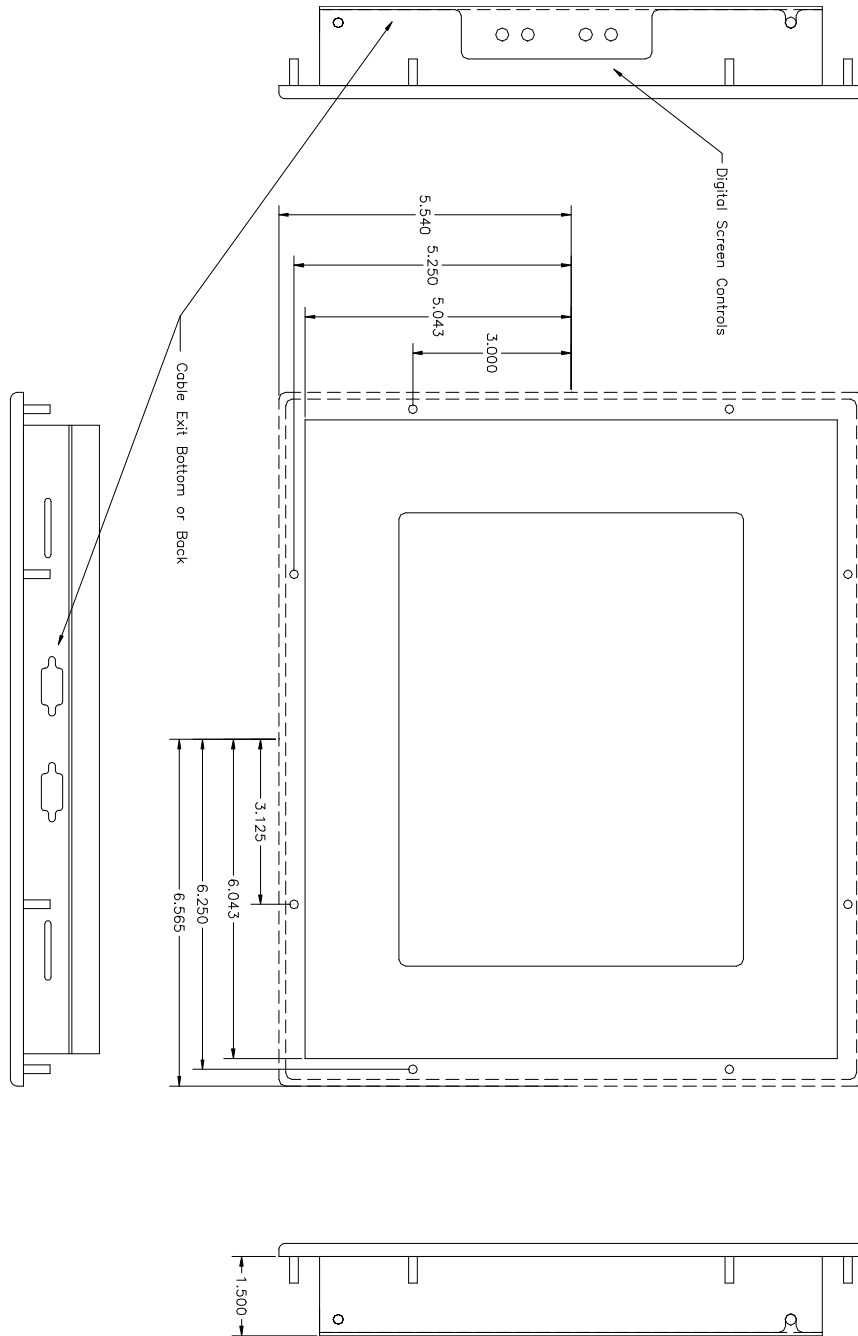
<http://www.kep.com/kep-fpm/>

FPM-84/84T Dimensions



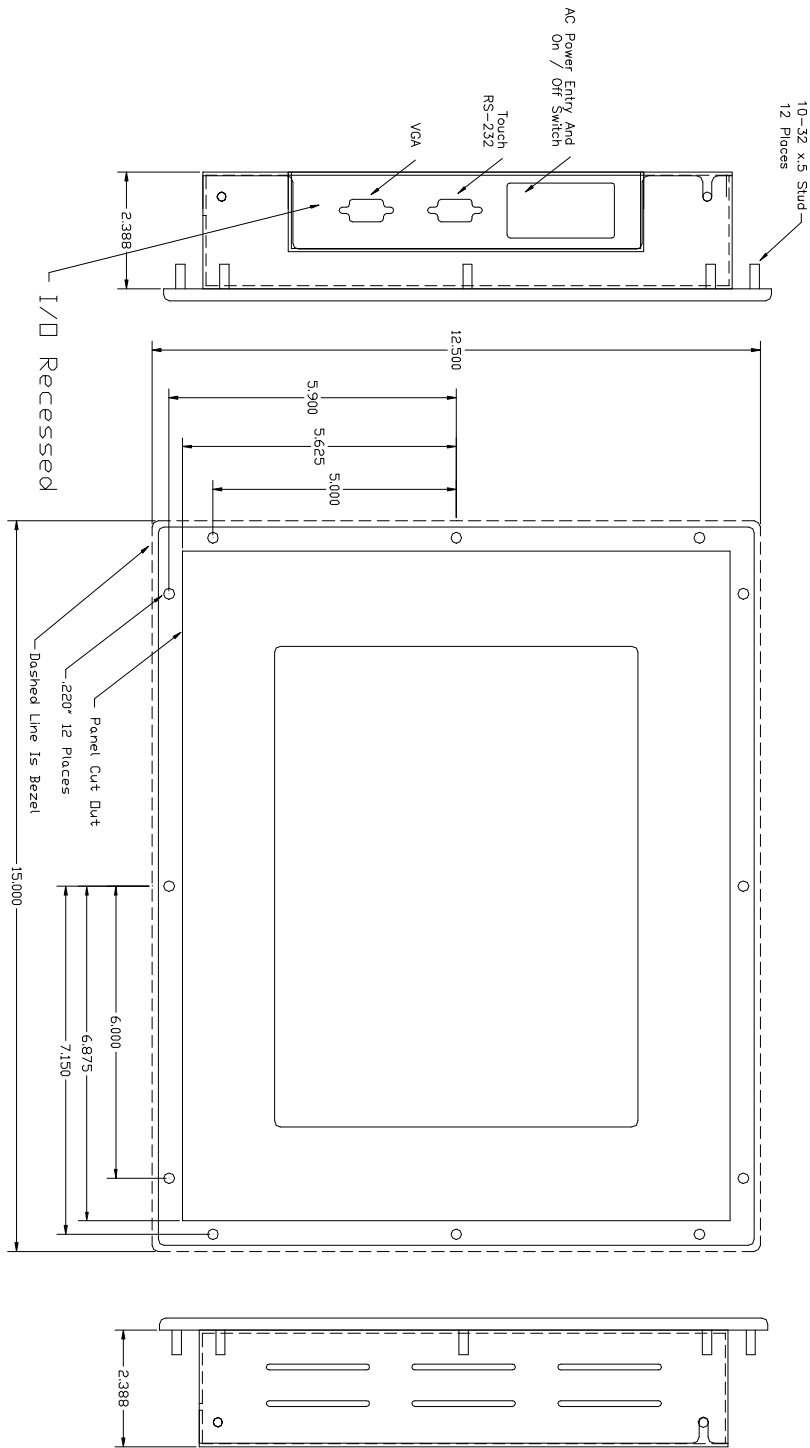
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FPM-104/104T Dimensions



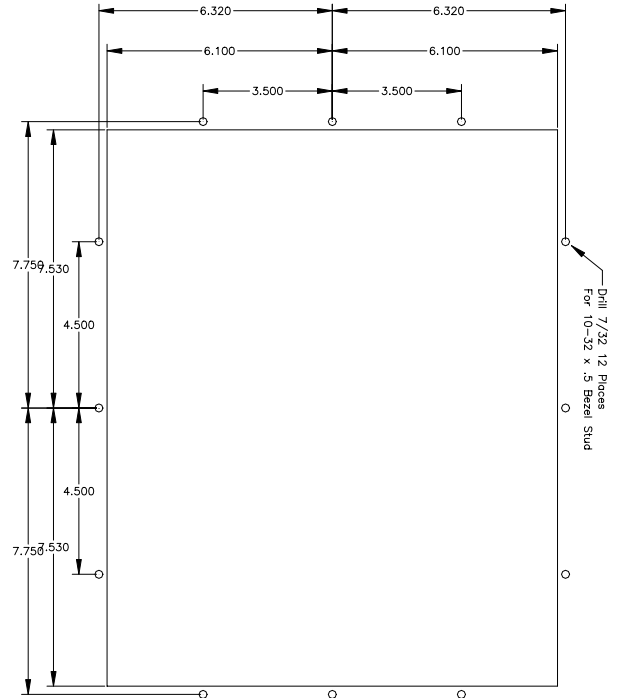
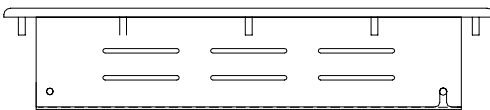
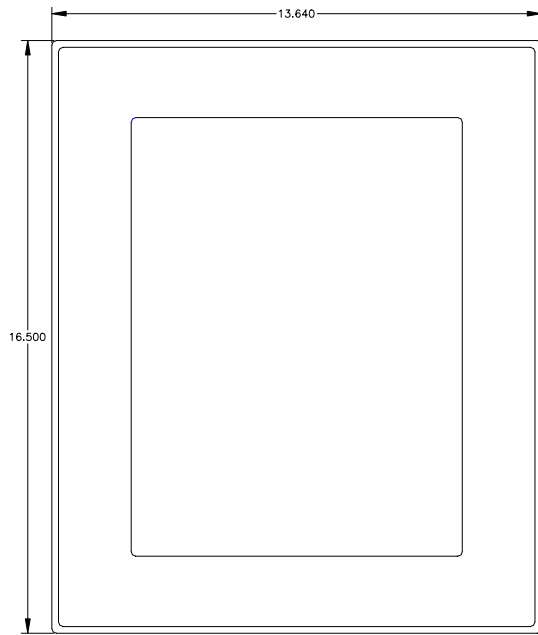
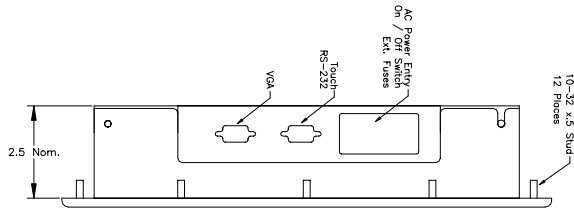
Model FPM-104 and FPM-104T Panel Cutout and Mounting Information

FPM-120/120T Dimensions



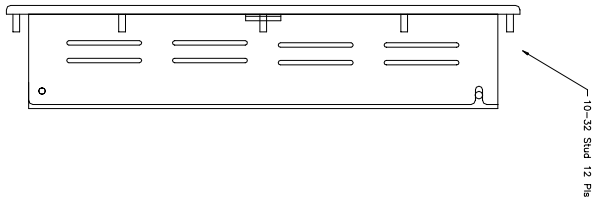
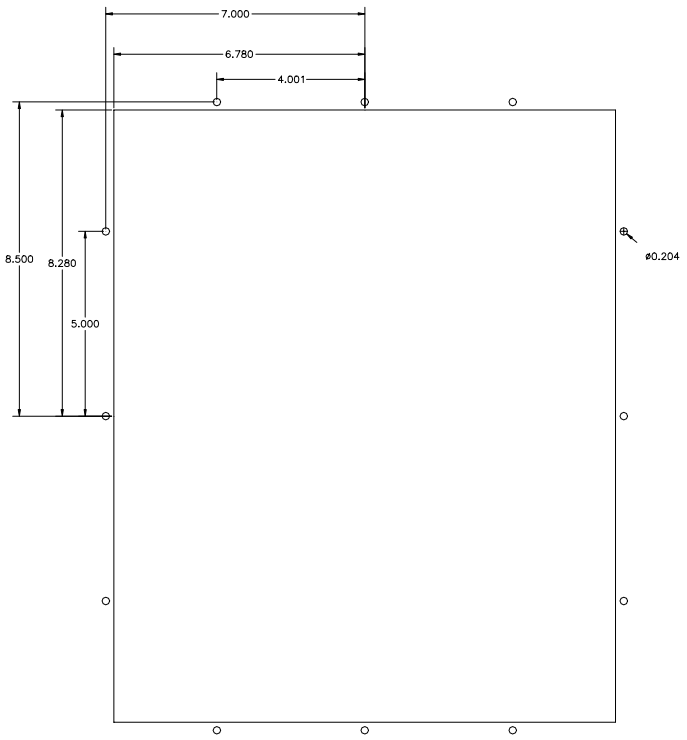
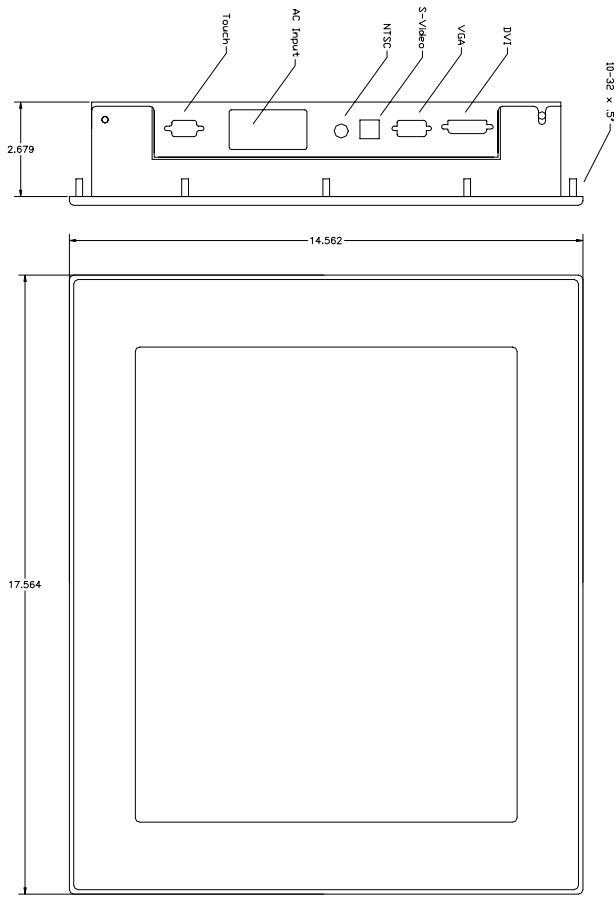
Model FPM-120(T) Panel Cut Out and Mounting Information

FPM-154/154T Dimensions



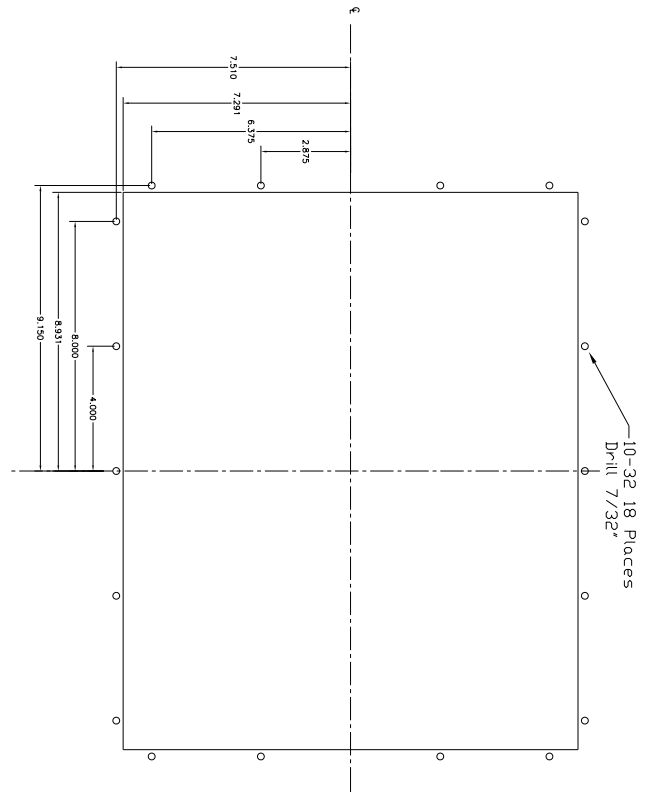
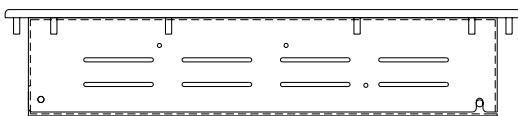
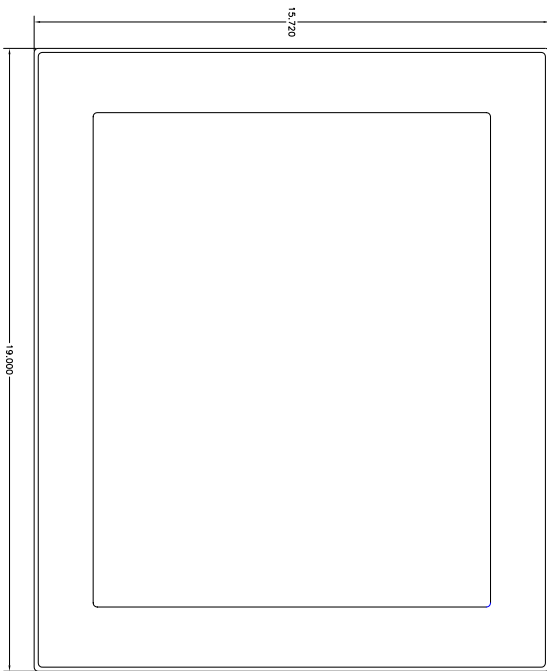
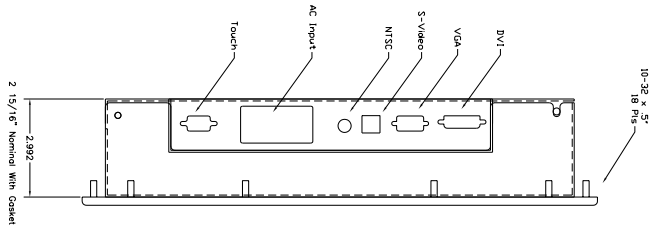
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FPM-170/170T Dimensions



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FPM-190/190T & FPM-191/191T Dimensions



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