



HIGHNESSTM

One of a kind

18.5" Industrial Grade Panel Mount Display

PM185FH001



Update Date
29th Jun 2020

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HIGHNESS MICROELECTRONICS PVT. LTD.

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1. Technical Specification

Screen Size	18.5" diagonal	
Active Area (H x V)	408.96 x 230.04 mm	
Resolution	1920 x 1080	
Aspect Ratio	16:9	
Pixel Pitch (H x V)	213 x 213 μm	
Color	16.7M	
Viewing Angle	80°/80°/80°/80°	
Luminance	350 cd/m ² (Standard Model)	
	500~900 cd/m ² (High Brightness Model)	
Contrast	1000:1	
Response Time	15ms	
Operating Temperature	-20° to +70° C	
Storage Temperature	-20° to +70° C	
Input Interface	Options	HDMI
		HDMI, DVI & VGA
		DVI, HDMI, S-Video, Composite Video & VGA
Power Input	12V DC	
Power Consumption	30 Watt	
Backlight Type	LED	
Backlight Life	50,000 hours	
Handle	2x Industrial Grade Rugged Handle (Optional)	
Enclosure	Mild Steel / Aluminum	
Mounting	Front Mounting	
	Back Mounting, VESA mount (Optional)	

2. Touch Screens (Optional)

2.1 Projected Capacitive Touchscreen

Touch Screen Type	Projected Capacitive
Interface	USB / I2C / UART
Input Method	Finger
Transparency	$\geq 80\%$ ($\pm 3\%$)
Haze	$< 3\%$
Surface Type	Antiglare
Operating Force	10-80 g
Durability	3,000,000 Touch at a Single Point
Hardness	$> 3H$
Capacitance	$< 5\text{ Nf}$
Supported OS	Windows, Linux & Android

2.2 Resistive Analog Touchscreen

Touch Screen Type	4/5 Wire Resistive
Interface	USB
Input Method	Stylus or Finger
Transparency	$\geq 85\%$ ($\pm 3\%$)
Haze	$< 3\%$
Surface Type	Antiglare
Operating Force	70-100 g
Durability	1,000,000 Touch at a Single Point
Hardness	$> 3H$
Supported OS	Windows & Linux

3. Enhancement Solutions (Optional)

3.1. Anti-Reflective / Anti-Glare / Anti-Finger-Print Coating

Particulars	Details
Reflection	0.57%
Transparency	92%
Haze	15%
Surface Hardness	3H

3.2. Surface Hardness Coating

Particulars	Details
Hardness	Upto 9H
Transparency	91.3%
Haze	0.2%
Water Resistance	60°C, 90% RH
Heat Resistance	140°C

3.3. Optical Bonding

Particulars	Details
Structure	Glass + Glass (Soda Lime Glass + TFT-LCD Module or Touch Screen + TFT-LCD Module)
Temperature	-40 to +85°C
Humidity	0 to 95% RH
Transparency	91%
UV Resistance	UVA 340nm

3.4. EMI-MESH

Item	Value	
Mesh Composition Base Material/ (Plated Deposit)	Copper	
Openings/ inch	82	
Wire Diameter	8µm	
Surface Resistance	< 0.15Ω/m ²	
H Field 1MHz	89	
E 10 MHz	90	
Plane Wave	100 MHz	84
	400 MHz	77
	1 GHz	62
	10 GHz	42

Model Numbers / Ordering Information

Model No.	Particulars	Details
PM185FH001	Base Model	-
PM185FH001-xx	Brightness	High Brightness
PM185FH001-xx-A	Input Interface	HDMI
PM185FH001-xx-B		HDMI, DVI & VGA Input
PM185FH001-xx-C		DVI, HDMI, S-Video, Composite Video & VGA
PM185FH001-xx-y-PT	Touch Screens	Projected Capacitive
PM185FH001-xx-y-RT		4 Wire Resistive Analog
PM185FH001-xx-y-5RT		5 Wire Resistive Analog
PM185FH001-xx-y-zz-AG/AR/AF	Enhancements	Anti-Reflective / Anti-Glare / Anti-Finger-Print Coating
PM185FH001-xx-y-zz-HF		Surface Hardness Coating
PM185FH001-xx-y-zz-OB		Optical Bonding
PM185FH001-xx-y-zz-##-E		EMI-MESH

(Manufacturer reserves the sole right to change the specifications without prior notice)
(Touch screen will reduce the original luminance of the LCD display)