

# 190PCUM, 190PCUMF, 190PTUM, 190PTUMF SingleTouch Monitor Data Sheet

**PALAS**  
ISO 9001:2008 Certified

<b>Size</b>	<b>48cm (19") 4:3</b>
<b>Models</b>	190PCUM, 190PCUMF, 190PTUM, 190PTUMF

## Touch Screen

Touch Points	Single Touch
Input Method	Finger, or 3M Smart pen.
Touch Screen	3M MicroTouch™ Surface Capacitive
Touch response time	less than 5.4 ms
Accuracy	> 99% of True Position
Light Transmission	greater than 91%
Touch resolution	16K x 16K with EXII controllers
Surface Finish	Anti-reflective, easy-glide, ClearTek Hard coat
Surface scratch	Hardness MoHS 7 or higher to induce a functions failure
Surface Obstruction	Not affected by surface contaminants like dust, grease, moisture, liquids, paan stains
Chemicals	Resistant to corrosives, as per ASTM D1308-02 & ASTM F-1598-95
Optional Protection	Front face sealable to Nema 4X / IP65 Front protected from sprays of water

## Display

Format	5:4
Display Area (mm)	376 x 302
Pixel Pitch	0.294
Brightness (cd/m <sup>2</sup> )	250
Resolution	1280 x1024
Viewing Angle	H >140, V >140

## Others

Operating Temp Display	0 - 45° C (optional 0- 60°C)
Operating Temp Touchscreen	-40 to 70°C;
Relative Humidity	85% non-condensing
Connectors-Power	220VAC
Connectors-Touch	Standard-USB; Optional:Serial
Connectors-Display	VGA
Power (W) max	45
Touch Monitor made in	India

## Model Types

xxxPCUM	Standard model (metal bezel)
xxxPCUMF	Flange model (for panel mount)
xxxPCUT	High temperature rating
xxxPCUM-U	Ultra high resolution
xxxPTUM	Toughened glass (UL 1950)

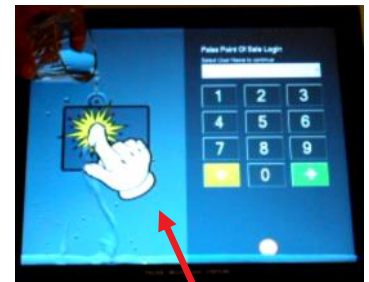
## PALAS Single-Touch Monitors (PCxx series)

Palas Touch monitors, based on 3M Capacitive touch technology and electronics, offer fast, accurate touch with a response time of just 5 ms, the world's fastest.

Touch operation unaffected by liquids, dust, dirt, grease

Anti-reflective finish for use in high brightness areas, smooth easy glide surface coating, metal body for hot & harsh environments. All sizes from 6.4" to 32"

**Made in India**



Optional - Water / liquid spills do not affect operation.




Palas manufactures in India:

- Touchscreen monitors, Touch All-in-ones, 10" to 55"
- Industrial Touch Panel PCs, Rugged touch systems
- POS systems
- Smart Card Readers for ATMs, Kiosks, Vending
- Interactive Digital Signage Systems for Malls, Factories, Buildings


Palas is the Master Distributor in South Asia for:

- Touch Screens from 3M Touch Systems, USA
- Motorized & Dip Smart Card Readers from Sankyo, Japan

Palas is an IIT / IIM alumnus enterprise

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