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## 3M<sup>™</sup> MicroTouch<sup>™</sup> Display C1700SS

## The Clear Choice for Optics, Reliability, and Ease of Integration

The 3M MicroTouch Display C1700SS (17"), a robust metal chassis display using 3M's industry-standard surface capacitive touch technology, provides a durable, optically-enhanced, and cost competitive alternative to 5-wire resistive displays used in industrial automation equipment and kiosk enclosures. The C1700SS display offers multiple mounting options to make integration easy and a variety of bezel options for sealing against liquids and other contaminants.

#### The Clear Choice

The C1700SS display utilizes an all-glass surface capacitive touch sensor with the proprietary  $3M^{\mathbb{M}}$  ClearTek<sup> $\mathbb{M}$ </sup> Hard Coat to deliver superior durability, 91.5% light transmission, 225-nit brightness (with touch sensor), 500:1 contrast ratio and an ultra-fast 5.4 millisecond touch contact time.

#### **Multiple Mounting and Bezel Options**

Multiple mounting and bezel options enable customers to meet their application needs at minimal cost. The C1700SS display offers a 75mm VESA pattern to provide arm mounting capability for industrial automation equipment. This minimizes the capital expenditure needed to upgrade equipment with touch. L-brackets are included for installations requiring the touch display to be fully enclosed.

The C1700SS display offers two bezel options. The Slimline bezel (optional) is flush with the edges of the display and is ideal for armmounted applications and is ideal for solutions that require a NEMA 1 seal rating. The Industrial Flanged bezel (optional), a metal-gasketed bezel, enables kiosks or others enclosures to support NEMA 4X / IP66 seal ratings.

#### **Cost Effective**

The C1700SS display uses an all-glass touch sensor with no moving parts, whereas 5-wire resistive solutions rely on compressing the top film layer against a conductive coating to recognize touch. Since force is



required to activate a resistive touch sensor it is susceptible to mechanical wear and the appearance of "Newton Rings" which can potentially reduce product life and optical performance.

The C1700SS touch display operates reliably in the presence of on-screen contaminants and carries a 3-year "unlimited touches" warranty.

#### **Recommended Applications**

- Industrial Automation
- Self Service
- Hospitality
- Security Systems
- Point-of-Information (POI)
- Home Automation

| Feature                          | Benefit   |
|----------------------------------|---|
| All-Glass, One-Layer<br>Solution | <ul> <li>Provides 91.5% light transmission as compared to 80% for certain 5-wire resistive solutions</li> <li>Unaffected by UV light that can cause degradation of optics and yellowing of film-based touch sensors over time</li> <li>No moving parts improves reliability</li> <li>Inherently free from the appearance of "Newton Rings"</li> </ul> |
| 3M ClearTek Hard Coat            | <ul> <li>Proprietary coating is uniformly heat infused into the glass creating a non-permeable barrier for increased scratch and chemical resistance</li> <li>Low surface energy coating promotes smooth finger drag</li> <li>Unaffected by surface contaminants</li> </ul>   |
| Total Touch Solution             | <ul> <li>Unlike other touch display manufacturers that utilize 3rd party touch sensors, electronics, and or software in their<br/>design, 3M owns, understands, and warranties the entire system for an unlimited amount of touches for 3 years</li> </ul>  |





### 3M<sup>™</sup> MicroTouch<sup>™</sup> Display C1700SS Specifications

#### **Functional Features**

| LCD Technology                                      | TFT, Active Matrix   |
|---|--|
| Display Colors                                      | 16.2 million   |
| Pixel Pitch   | .264mm   |
| Brightness<br>without touch sensor                  | 250 cd/m <sup>2</sup> (nit) typical                                  |
| Brightness<br>with touch sensor (max.) <sup>1</sup> | 225 cd/m <sup>2</sup> (nit) typical                                  |
| Contrast Ratio                                      | 1000:1 typical   |
| Video Response Time                                 | 5 ms typical   |
| Touch Response Time                                 | 5.4 ms typical   |
| Viewing Angle <sup>2</sup>                          | Horizontal: +/-80 degrees typical<br>Vertical: +/-80 degrees typical |
| Control Type  | OSD  |
| On Screen Display Controls                          | Standard rear mounted controls.                                      |
| Maximum Resolution                                  | 1280 x 1024  |
| Operating Environment                               | 0 to +40 degrees C<br>Relative Humidity, non-condensing 90%          |
| Storage Environment                                 | -25 to +60 degrees C   |
|   |  |

#### **Physical Features**

| Physical Dimensions<br>(Enclosure) (WxHxD) | 405.7 x 335.1 x 49 mm<br>15.98 x 13.18 x 1.93 inches       |
|--|--|
| Display Area (WxH)                         | 337.9 x 270.3 mm<br>13.3 x 10.6 inches                     |
| Video Cable Connector                      | 15 Pin D-Sub   |
| Power Supply Internal                      | 12V DC Power Supply  |
| Power Savings                              | DPMS, VESA Compliant                                       |
| Power Consumption                          | 30 watts normal operation                                  |
| Backlight Life                             | 50,000 hrs. typical  |
| Weight                                     | 4.6kg/10.1 lbs   |
| <b>RoHS</b> Compliant                      | Yes  |
| Agency Approvals                           | FCC B, CE, UL/cUL  |
| Mounting Options                           | Set of 2, side or top/bottom mounting brackets, VESA 75 mm |
| Warranty                                   | 3 years of unlimited touches                               |



With optional Slimline Bezel (Part Number: 2709122)



Optional Industrial Flange Bezel (Part Number: 5021104)



Mounting L-brackets (standard)

#### Standard Part Numbers

| Part Number    | Description       |
|----------------|-------------------|
| 11-4945-227-00 | Serial (no bezel) |
| 11-4945-225-00 | USB (no bezel)    |

(1) Brightness measured on a display with 3M<sup>\*\*</sup> MicroTouch<sup>\*\*\*</sup> Sensor SCT3250 surface capacitive sensor. (2) Measured at a contrast ratio of 10.

NOTE: Mechanical Drawings available at www.3m.com/touch

#### **3M Touch Systems**

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