# 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™ ClearTek™ 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 arm-mounted 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 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	Unlike other touch display manufacturers that utilize 3rd party touch sensors, electronics, and or software in their design, 3M owns, understands, and warranties the entire system for an unlimited amount of touches for 3 years





### 3M™ MicroTouch™ Display C1700SS Specifications

### **Functional Features**

LCD Technology TFT, Active Matrix
Display Colors 16.2 million
Pixel Pitch .264mm

Brightness 250 cd/m² (nit) typical

without touch sensor

Brightness 225 cd/m² (nit) typical

with touch sensor (max.)1

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

Vertical: +/-80 degrees typical

Control Type OSE

On Screen Display Controls Standard rear mounted controls.

Maximum Resolution 1280 x 1024
Operating Environment 0 to +40 degrees C

Relative Humidity, non-condensing 90%

Storage Environment -25 to +60 degrees C

### Physical Features

Physical Dimensions 405.7 x 335.1 x 49 mm (Enclosure) (WxHxD) 15.98 x 13.18 x 1.93 inches

Display Area (WxH) 337.9 x 270.3 mm 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

RoHS Compliant Yes

Agency Approvals FCC B, CE, UL/cUL

Mounting Options Set of 2, side or top/bottom mounting

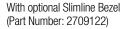
brackets, VESA 75 mm

Warranty 3 years of unlimited touches

- (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







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)

### **3M Touch Systems**

Subsidiary of 3M Company 501 Griffin Brook Park Drive Methuen, MA 01844 U.S.A.

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