



**Bergquist Part Number: 400457**

**Revision: A**

**Description: 12.1" 5-wire Resistive Touch Screen**

**Mechanical Dimensions and Construction.**

	<b>Specification</b>	<b>Remarks</b>
<b>Overall Dimensions</b>	271.27mm x 205.74mm	+/- .30mm
<b>Overall Thickness</b>	2.47mm	+/- .30mm
<b>Viewable Area</b>	252.87mm x 191.40mm	+/- .20mm
<b>Active Area</b>	248.87mm x 187.40mm	+/- .20mm
<b>Nominal Glass Thickness</b>	1.85mm	

\*See mechanical drawing for additional specification

**Environmental Specification**

	<b>Specification</b>	<b>Remarks</b>
<b>Operating Temperature</b>	-10° C ~ +70° C	Standard
<b>Storage Temperature</b>	-40° C ~ +80° C	Standard
<b>Constant Temperature/ Humidity</b>	70° C/ 80% RH/ 500 Hrs.	Non Condensing. Tested at ambient temperature after cycle
<b>Thermal Shock</b>	-40° C ~ +80° C 60 min/cycle/100 times	Tested at ambient temperature after cycle
<b>Chemical Resistance</b>	Acetone, methylene chloride, methyl ethyl ketone, isopropyl alcohol, mineral spirits, unleaded gasoline, diesel fuel, antifreeze, vinegar, coffee, tea, cooking oil, most commercial cleaners including laundry detergent, and ammonia based glass cleaners	10 minutes at room temperature

**Optical Characteristics**

	<b>Specification</b>	<b>Remarks</b>
<b>Light Transmission</b>	>80%	Anti-Glare with Micro-glass Surface
<b>Haze</b>	<5%	Anti-Glare with Micro-glass Surface

### Linearity Characteristics

	Specification	Remarks
Direction X	<1.5%	Linearity is the value of the max. error voltage
Direction Y	<1.5%	Linearity is the value of the max. error voltage

### Durability

	Specification	Remarks
Activations	35 Million	
Activation Force	≤60g Stylus	
Top Film Hardness	6 Mohs	ASTM D3363
Tail Bond Strength	>13 lbs	Straight Tail Pull

### Electrical Specifications

	Specification	Remarks
Operating Voltage	5.5V or Less	
Insulation Resistance	≥ 20 MΩ at 25 V(DC)	
Electrostatic Protection	20 discharges at 15Kv	EN 61000-4-2

### Warranty

2-year limited warranty

### Mechanical Drawing

\*\* See attached drawing