

**Bergquist Part Number: 400443**

**Revision: A**

**Description: 12.1" Surface Capacitive Touch Screen**

**Mechanical Dimensions and Construction.**

	<b>Specification</b>	<b>Remarks</b>
<b>Overall Dimensions</b>	10.724" x 8.106", 272.40mm x 205.90mm	+/- .020", +/- .50mm
<b>Overall Thickness</b>	.094", 2.3mm	+/- .008", +/- .20mm
<b>Viewable Area</b>	10.020" x 7.598", 254.50mm x 193.00mm	+/- .020", +/- .50mm
<b>Active Area</b>	9.823" x 7.402", 249.50mm x 188.00mm	+/- .020", +/- .50mm
<b>Nominal Glass Thickness</b>	.073", 1.85mm	EMI Shielded

\*See mechanical drawing for additional specification

**Environmental Specification**

	<b>Specification</b>	<b>Remarks</b>
<b>Operating Temperature</b>	-20° C ~ +70° C	
<b>Storage Temperature</b>	-50° C ~ +85° C	
<b>Constant Temperature/ Humidity</b>	70° C/ 90% RH/ 500 Hrs.	Tested at ambient temperature after cycle
<b>Thermal Shock</b>	-40° C ~ +70° 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>	>90%	Clear
<b>Haze</b>	<5%	Clear

**Linearity Characteristics**

	<b>Specification</b>	<b>Remarks</b>
<b>Direction X</b>	<1.0%	Linearity is the value of the max. error voltage
<b>Direction Y</b>	<1.0%	Linearity is the value of the max. error voltage



## Durability

	<b>Specification</b>	<b>Remarks</b>
<b>Activations</b>	200 Million	
<b>Activation Force</b>	≤10g Stylus	
<b>Top Film Hardness</b>	7H	ASTM D3363
<b>Tail Bond Strength</b>	>13 lbs	90° Tail Pull/EMI Shield

## Electrical Specifications

	<b>Specification</b>	<b>Remarks</b>
<b>Operating Voltage</b>	5V to 16V or USB	
<b>Insulation Resistance</b>	≥ 20 MΩ at 25 V(DC)	
<b>Electrostatic Protection</b>	20 discharges at 15Kv	EN 61000-4-2

## Warranty

2-year limited warranty

## Mechanical Drawing

\*\*See attached drawing