



**Bergquist Part Number: 400404**

**Revision: A**

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

**Mechanical Dimensions and Construction.**

	<b>Specification</b>	<b>Remarks</b>
<b>Overall Dimensions</b>	10.680" x 8.100", 271.27mm x 205.74mm	+/- .015", +/- .20mm
<b>Overall Thickness</b>	.087", 2.2mm	+/- .008", +/- .20mm
<b>Viewable Area</b>	9.956" x 7.535", 252.87mm x 191.40mm	+/- .015", +/- .20mm
<b>Active Area</b>	9.798" x 7.378", 248.87mm x 187.40mm	+/- .015", +/- .20mm
<b>Nominal Glass Thickness</b>	.073", 1.85mm	

\*See mechanical drawing for additional specification

**Environmental Specification**

	<b>Specification</b>	<b>Remarks</b>
<b>Operating Temperature</b>	-10° C ~ +70° C	
<b>Storage Temperature</b>	-40° C ~ +80° C	
<b>Constant Temperature/ Humidity</b>	70° C/ 80% RH/ 500 Hrs.	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	

**Optical Characteristics**

	<b>Specification</b>	<b>Remarks</b>
<b>Light Transmission</b>	>80%	Gloss
<b>Haze</b>	<9.5%	Gloss

**Linearity Characteristics**

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

**Durability**

	<b>Specification</b>	<b>Remarks</b>
<b>Activations</b>	35 Million	
<b>Activation Force</b>	≤50g Stylus	
<b>Top Film Hardness</b>	3H	ASTM D3363
<b>Tail Bond Strength</b>	>25 lbs	90° Tail Pull

**Electrical Specifications**

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

**Warranty**

5-year limited warranty

**Mechanical Drawing**

\*\*See attached drawing