

**Bergquist Part Number: 400431**

**Revision: E**

**Description: 12.1" 4-wire Resistive Touch Screen**

**Mechanical Dimensions and Construction.**

	<b>Specification</b>	<b>Remarks</b>
<b>Overall Dimensions</b>	266.60mm x 204.00mm	+/- .30mm
<b>Overall Thickness</b>	2.1mm	+/- .10mm
<b>Viewable Area</b>	250.00mm x 188.00mm	+/- .50mm
<b>Active Area</b>	246.00mm x 185.00mm	+/- .50mm
<b>Nominal Glass Thickness</b>	1.8mm	

\*See mechanical drawing for additional specification

**Environmental Specification**

	<b>Specification</b>	<b>Remarks</b>
<b>Operating Temperature</b>	-10° C ~ +60° 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/10 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>	81% ± 3%	Anti-Glare
<b>Haze</b>	9.5% ± 2.5%	Anti-Glare

**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>	10 Million	
<b>Activation Force</b>	≤82g Stylus	
<b>Top Film Hardness</b>	3H	ASTM D3363
<b>Tail Bond Strength</b>	>13 lbs	90° Tail Pull

## Electrical Specifications

	<b>Specification</b>	<b>Remarks</b>
<b>Operating Voltage</b>	5.5V or Less	
<b>Insulation Resistance</b>	≥ 10 MΩ at 25 V(DC)	
<b>Electrostatic Protection</b>	Withstands 15KV air discharge	EN 61000-4-2

## Warranty

1-year limited warranty

## Mechanical Drawing

\*\*See attached drawing