

# Bergquist Part Number: 400494

**Revision: A** 

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

#### **Mechanical Dimensions and Construction.**

	Specification	Remarks
Overall Dimensions	275.82mm x 177.90mm	+/38mm
Overall Thickness	2.2mm	+/20mm
Viewable Area	264.12mm x 166.20mm	+/20mm
Active Area	261.12mm x 163.20mm	+/20mm
Nominal Glass Thickness	1.85mm	

\*See mechanical drawing for additional specification

#### **Environmental Specification**

	Specification	Remarks
Operating Temperature	-10° C ~ +70° C	
Storage Temperature	-40° C ~ +80° C	
Constant Temperature/ Humidity	70° C/ 80% RH/ 500 Hrs.	Tested at ambient temperature after cycle
Thermal Shock	-40° C ~ +80° C 60 min/cycle/100 times	Tested at ambient temperature after cycle
Chemical Resistance	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**

	Specification	Remarks
Light Transmission	>80% +/- 1%	Anti-Glare
Haze	<9% +/- 1%	Anti-Glare

### **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

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### **Durability**

	Specification	Remarks
Activations	37 Million	
Activation Force	≤50g Stylus	
Top Film Hardness	3H	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)	
Electostatic Protection	20 discharges at 15Kv	EN 61000-4-2

#### **Warranty**

5-year limited warranty

#### **Mechanical Drawing**

\*\* See attached drawing