

**Bergquist Part Number: 400431**

**Revision: C**

**Description: 12.110" 4-wire Resistive Touch Screen**

**Mechanical Dimensions and Construction.**

|                                | <b>Specification</b>                  | <b>Remarks</b>       |
|--------------------------------|---------------------------------------|----------------------|
| <b>Overall Dimensions</b>      | 10.496" x 8.031", 266.60mm x 204.00mm | +/- .020", +/- .50mm |
| <b>Overall Thickness</b>       | .083", 2.1mm                          | +/- .008", +/- .20mm |
| <b>Viewable Area</b>           | 9.843" x 7.402", 250.00mm x 188.00mm  | +/- .020", +/- .50mm |
| <b>Active Area</b>             | 9.685" x 7.283", 246.00mm x 185.00mm  | +/- .020", +/- .50mm |
| <b>Nominal Glass Thickness</b> | .071", 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/<br/>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> | >75%                 | Anti-Glare     |
| <b>Haze</b>               | <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