

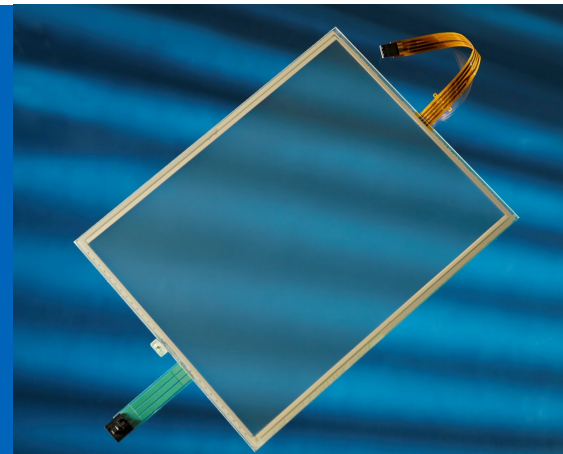
TOUCHSCREEN- LCD HEATER COMBO

CHALLENGE:

A customer in the industrial field approached TPI to add a transparent heater to their display assembly. They were operating their HMI products on offshore platforms and were having challenges with LCD's performance during the cold seasons.

SOLUTION:

This assembly used a 4-wire resistive touchscreen interface. TPI recommended combining the touchscreen and the LCD heater (TPI CrystalHeat®) into one unit. A PET based CrystalHeat® was designed to meet the required wattage. The heater was laminated on the back side of a resistive touchscreen for a complete assembly.



BENEFITS:

TPI not only provided a solution to this customer's display heating requirement, but also simplified the assembly by providing one single touchscreen/heater unit. This resulted in a more economical solution. In addition, it reduced the supplier count and purchase order transactions and all the costs associated with procurement activities.

RESULTS:

The addition of a CrystalHeat® LCD Heater to the assembly extended the operating temperature of the LCD in cold environments and combining the LCD Heater with the touchscreen reduced overall component cost and simplified the assembly.