MS Product Categories
Dignity Electronics supplies both standard and custom-manufactured lines of touch screens and LCD touch modules. We offer an extremely high degree of product customization – everything from product size, touch screen construction, screen enhancements, touch controller, cover lens materials and silk screening, etc. With in-house software and product engineering teams we can provide the right solution for a range of industries, applications and requirements.

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<th>Membrane Switches</th>
<th>Capacitive Touch Switch</th>
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<td>Overlays</td>
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<td>Membrane switch</td>
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<tr>
<td>Membrane switch w/ integrated lighting</td>
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<tr>
<td>Membrane switch w/ integrated domes</td>
<td>Capacitive switch display module</td>
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Our membrane switches have been used in home appliances and industrial applications for more than twenty years by the world’s largest white goods corporations – we currently provide roughly 25% of the world’s microwave interfaces. With our considerable experience in producing quality HMI products for a range of products, Dignity’s product team can provide the right solution for your needs.

Our membrane switch technology is the standard for most HMI projects, and while it does not have the same visual appeal or design flexibility as capacitive switches or touch panels, membrane switches are cost effective, reliable and an extremely mature technology.

**Advantages:** cost effective, mature and flexible technology for rapid, high-volume production as well as lower volume uses. High sealability and reliability.

**Application:** Home appliances, industrial control projects, medical devices, instrumentation and other commercial project uses.

- Variety of textures, colors and designs available
- EMI shielding, tactile metal domes and other functional enhancements possible
- Flexible minimum order quantities

**Size:** As per client requirement

**Substrate:** PC, PVC, Silicone, etc.

**Interface:** Pin, USB, FPC, etc.

**Customization:** Material, tactile interaction, anti-bacterial coatings, etc.
The average membrane ranges from several grams to tens of grams in weight, making for easy and low-cost transportation and assembly.

The switch’s electrical switch can use a variety of carbon and silver-based conductive and dielectric inks. The electrical circuit layer is extremely flexible and electrical resistance & conductivity are easily controlled.

As the materials used in membrane switches have excellent insulation, heat resistance, flexibility and mechanical properties; combined with our screen printing technology and reverse printing means that lifespan can reach up to five years or more.

Through the use of various sealing technologies, membrane switches can be made waterproof, oleophobic, dirt resistant, static-electricity resistant, etc.

Due to the mature nature of our membrane switch production technique and supply chain, the cost is extremely competitive compared to other switch mechanisms.

The combination of advanced screen printing technology with experienced product design mean that we can realize any appearance requirements.
## MS Product Line – Product Enhancements

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<td>FPC</td>
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Note: Additional enhancements and product options are available upon request.
MS Product Line – Membrane Switch Applications

Microwave Oven / Cookers / Washing Machines

Industrial Controls

Instrumentation

Medical Devices
Why Dignity Electronics? - Dignity’s Core Advantages

Our Key Advantage

Why are companies as diverse as a boutique HMI suppliers in the US, a Korean industrial monitor provider to a Chinese Fortune 100 corporation working with Dignity Electronics?

1. Reliability
   Global supply chains are increasingly fragile – increasingly volatility means reliability and stability is a crucial aspect of supplier selection.

2. Boutique Service / Large Company Capabilities
   We have the scale and expertise to supply the world’s largest white goods company, but are set up to provide a level of service most large suppliers can’t or won’t.

3. Dedicated Project Teams
   We assign dedicated project teams, including project and design engineers, sales and sales support personnel to handle all key projects and reduce communication costs and project slippage.
Why Dignity Electronics? – Dignity’s Commitment

Some reasons why we are the preferred partner for both multinationals and SMEs for a range of touch solutions:

**Extensive Category Experience**
We have more than 20 years in the field of HMI solutions and 10 years of touch panel design, production and engineering experience.

**First Class Production Capabilities**
A modern, flexible and fully equipped production facility allows us to meet the capacity and quality demands of any customer.

**Superior Quality Control**
We have a rigorous and time tested quality system and structure that has allowed us to work hand in hand with some of the largest and most demanding multinationals.

**Superior Service**
We have a fully capable engineering, design, project management, logistics and operational team to provide complete service to our customers.

**Lead Time Reduction**
Our average lead time is less than 20 days for repeat orders and we can provide a design solution for most customers within 3-4 days.

**Product Life Extension**
We typically offer a year warranty as standard on most products, more than five years of product line availability and free software update services in perpetuity.
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