



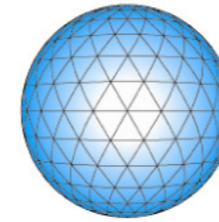
Distribución de componentes eléctricos y electrónicos

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# APEM

Integrated Touch Screens

## APEM: A WORLD-WIDE ORGANIZATION

### Technological know-how

- 30 years of integrating keyboard design for no-fail reliability in harsh environments
- Sealing & protection in harsh environments
  - Illumination
  - Rear & front mountings
  - Security overrides
  - Connections
  - Supports

### Domain expertise

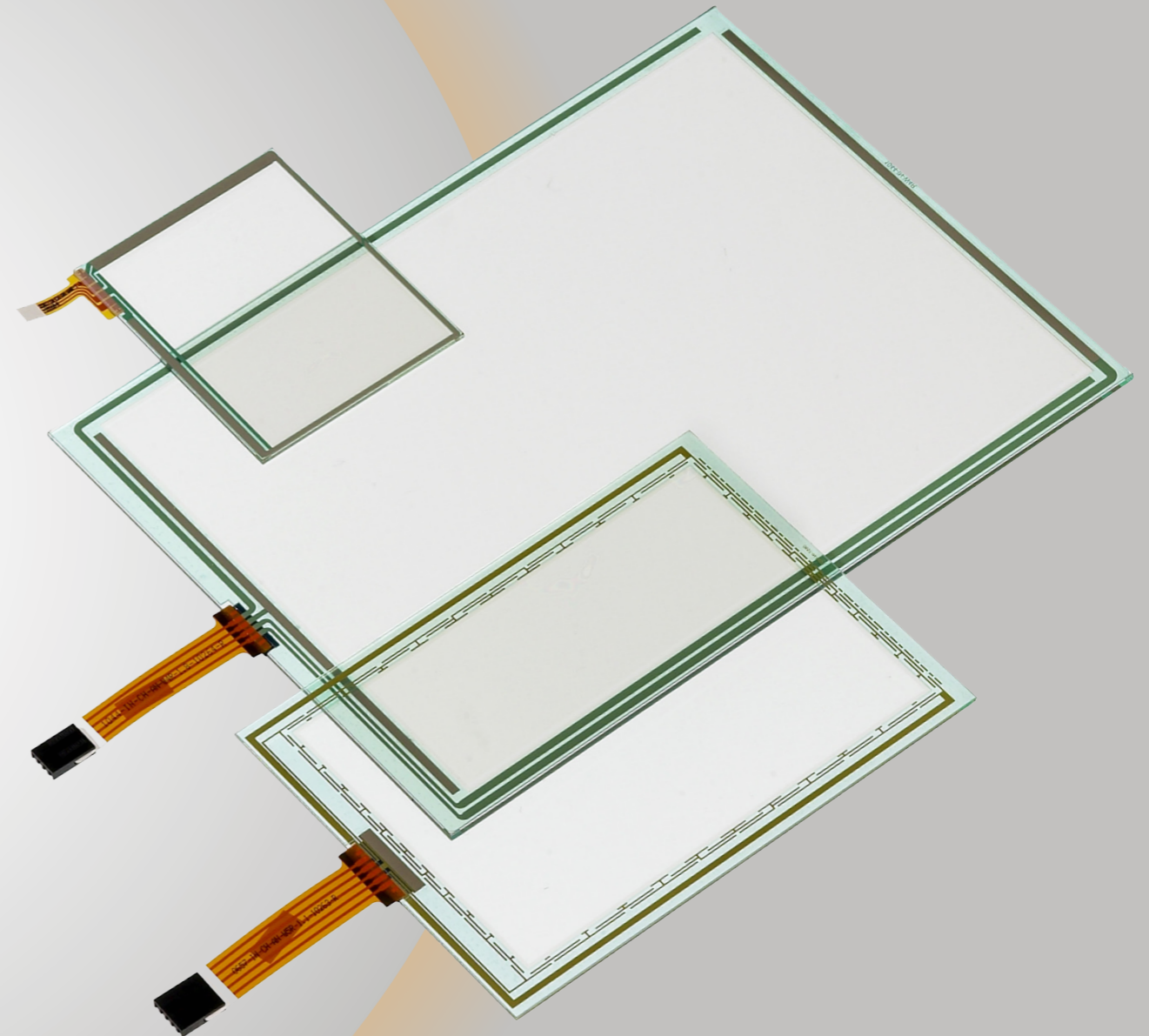
- Our customers include the major players in
- Medical applications
  - Military & Aeronautics
  - Food industry
  - Heavy industries
  - Naval & Transportation industries
- We know your work environment...  
Our continued success proves it.

### Total solutions

APEM's vertical integration means we handle everything from the technical drawings to the finished product. The housing, membrane, touch screen, electronic interface, LED indicators, joysticks and switches, all are quality assured from the same trusted source.

### Quality Assurance & Customer Service

The APEM QA stamp comes on every component and on the finished integrated solution. All our products are supported by a world-wide organization intent on building and maintaining long term customer relations.



TS1009A  
V600TSL



Addresses of sales subsidiaries and distributors on [www.apem.com](http://www.apem.com)

In demanding environments, the touch screen is just the beginning

## Mission Critical Components

Every component is important, but some can make or break the end user experience. If your touch screen performs poorly, the chances are your customer will give your product a failing grade. In long-term, B2B relationships, the stakes are high. All touch screens need to be accurate, responsive, transparent and free of all visual artifacts. Industrial touch screens need to stay that way - no matter what the ambient temperature or humidity, and despite vibrations and shocks, frequent aggressive cleaning and repeated exposure to salt or harsh chemicals, throughout the life of the product it's housed in.



How can a 1.4 ml piece of plexiglass stand up to that kind of abuse ?

It's all in the integration, the optical glue and the adhesion.



**Touch screens:** so flexible, adaptive and intuitive to use, it's no wonder industry is rapidly adopting this technology. The advantages of a touch screen interface are even greater in industrial settings than in consumer applications. Because touch screens are easy to master, they require little or no training. They afford fast response times and are ideal for emergency and security applications. Their quality is improving while their costs are declining, making them an ever more attractive option.

Touch screens are now the gold standard in applications like mobile phones, but their use in industry presents unique challenges to the technology.

## APEM's Mastered the Integration

Dedicated equipment plus APEM's lamination and bonding process ensure great transparency : polyester membrane and touch screen are assembled with a special adhesive that preserves the ability to transmit light. Our process ensures no bubbles, no oil effect and no trapped dust particles. All in keeping a great design and all the features of APEM's membrane switch panels.

Touch screens destined for demanding environments need to be built and assembled to higher standards to withstand the rigours associated with their end uses. APEM knows these harsh environments and has been satisfying customers in these domains for over 30 years.



Touch screen, housing, membrane, illuminations, cable and, if desired, joysticks and switches. All seamlessly integrated by a single supplier.

## THE APEM ADVANTAGE: Satisfied Customers

« The touch screen is the first hands-on experience an operator has with our machines. It had better be good ! »

Product Manager, Food Industry

« We've had problems with other suppliers. This time, even though we manufacture at 10°C and our customer operates at 40° C, the touch screen's adhesive held up just fine! »

Quality Control Manager, Medical Equipment

« Quality assurance, accountability and traceability on every component of the interface: it really simplifies my job. »

Procurement Manager, Armament Manufacturer