

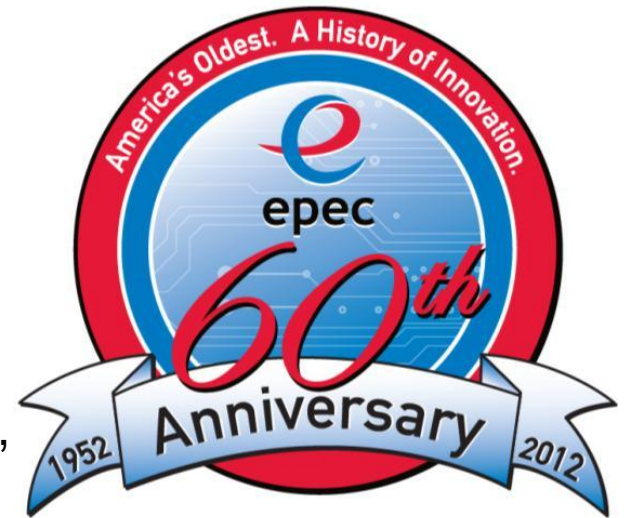
epec | *build to print
electronics*

▶ User Interface Products



▶ DELIVERING QUALITY SINCE 1952.

- ▶ Privately held company, established in 1952.
- ▶ Estimated 2012: Sales: US\$60 Million
- ▶ 93 Employees Worldwide
(60 – North America, 30 – Asia, 3 – Europe)
- ▶ Design and manufacture customized, built-to-print, performance-critical products for all sectors of the electronics industry.
- ▶ Leading provider of printed circuit boards, membrane switches, graphic overlays, silicone rubber products, electronic heaters, fans, motors and custom battery products.
- ▶ Integrated supply chain management solutions to handle the complexity of today's global marketplace while making sure that every order is being manufactured at the "right" factory.





MEMBRANE SWITCHES



GRAPHIC OVERLAYS



SILICONE RUBBER KEYPADS



TOUCH SCREENS



USER INTERFACE ASSEMBLIES



DESIGN & VALUE ADDED SERVICES



▶ Our customer industries:

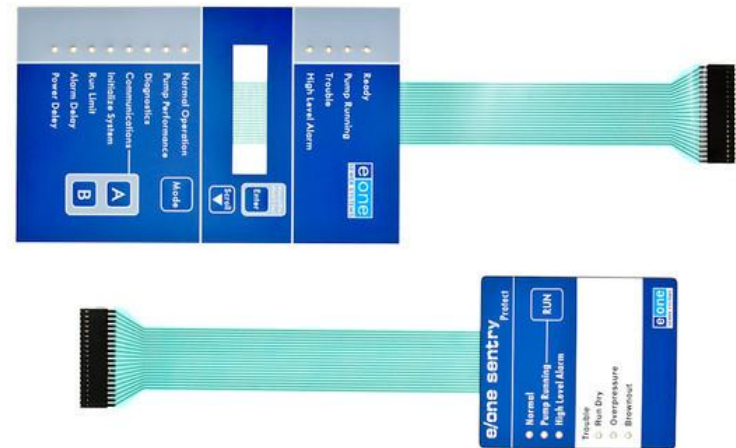
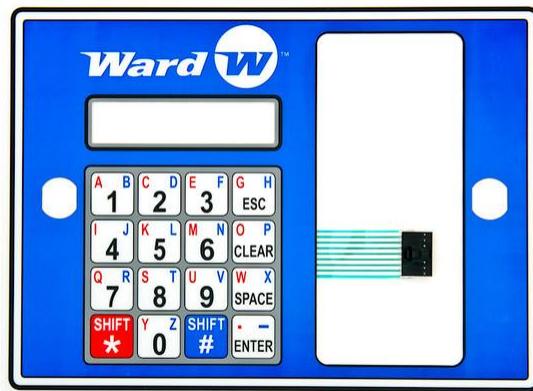
- Industrial Controls
- Medical Devices
- Gaming
- Appliance
- Telecom



▶ Our engineering team will work with you to recommend the best user interface solution for your specific application.

▶ Membrane Switches

- Tactile, Flat and Poly Dome Switches
- Pillow and Rim Embossing
- Embedded LEDs and Resistors
- Polyester and Copper Flex Circuitry

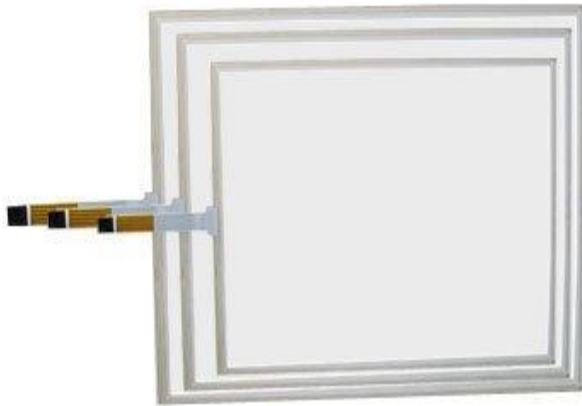


- ESD and EMI Shield Options
- Backlighting Options
- Metal back panels

▶ **Silicone Rubber Keypads**

- Tactile, Flat and Poly Dome Switches
- Pillow and Rim Embossing
- Spray Paint & Laser Etch
- Flow Molding
- Insert Molding
- Protective Coating Options
- Plastic & Epoxy Keycaps



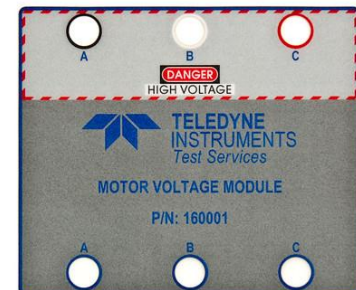
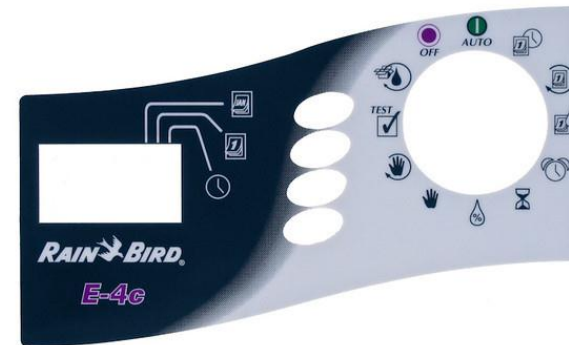
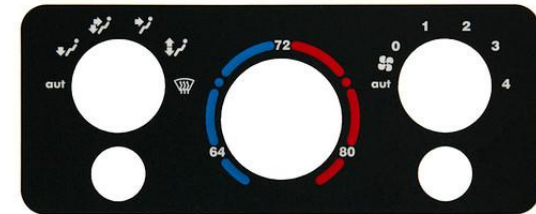


► Touch Screens

- Resistive and Capacitive Panels
- 4-Wire Sizes from 2.8 - 21"
- 5-Wire Sizes from 5.8 - 21"
- 8-Wire Sizes from 8.4 - 21"
- Capacitive Sizes from 5.7 - 24"
- Operating temperature: -30 to 80°C
- Operating humidity: 20 to 90% RH
- Perimeter Sealing and EMI Shielding available

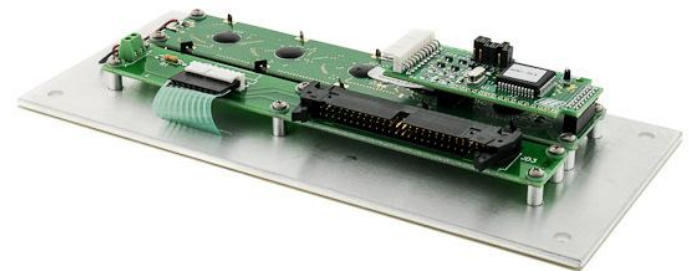
▶ Graphic Overlays

- Screen printing and digital printing capabilities
- Wide range of materials including polycarbonate, polyester and acrylic.
- Complete line of 3M adhesives
- Steel rule die, laser cutting and router capabilities.
- Urethane Doming
- Serial #/Variable Data Products
- Metal Nameplates
- UL/CSA Labels



▶ Epec can deliver complete assemblies with some or all of the following components.

- Printed Circuit Boards
- Touch Screens
- LCDs
- Membrane Switches
- Silicone Rubber Keypads
- Cable Assemblies
- Power Supplies
- Plastic Housings
- Connectors



One Source – One Solution

- ▶ Engineering & Design
 - Graphic Design
 - Product Development
 - Mechanical Engineering
 - Product Integration
- ▶ Reverse Engineering
- ▶ Rapid Prototyping
- ▶ PCB Layout
- ▶ Test Procedures



- ▶ ISO Certified Factories
- ▶ US Based Engineering Support
- ▶ Focused Factories
 - Factories are approved for products they have successful history of manufacturing.
- ▶ Asian Based Technical Director
 - Factory audits ensure procedures and processes are followed.
- ▶ Technical Center in New Bedford, MA to manage all QA testing



**PRINTED
CIRCUIT BOARDS**



**FLEX &
RIGID-FLEX PCBs**



**MEMBRANE
SWITCHES**



**GRAPHIC
OVERLAYS**



**RUBBER
KEYPADS**



**CUSTOM
BATTERY PACKS**



**HEATERS &
SENSORS**



**FANS &
MOTORS**

- ▶ Customer requirements are always unique and customized, therefore our inventory management system must accommodate for this type of environment.

- ▶ We Offer:
 - Kanban
 - Consignment
 - JIT Programs
 - Blanket Orders
 - Customer Fulfillment
 - Bonded Warehousing
 - Kitting
 - Safety Stock
 - Other flexible solutions



1. **Quicker Delivery** - Epec's technology infrastructure and people, including the Asian and US based operations and engineering teams, enable jobs to get started the same day the order data is electronically received by our factory.
2. **Accurate Information** - Epec's on-site personnel provide accurate daily Work In Process reports so customers can receive immediate order status information, along with in person verification of all daily reports by Epec staff.
3. **Better Quality** - Epec ensures higher levels of quality through three key additional processes. On-site QA inspectors at each facility provide an additional audit before it leaves Asia, Epec maintains dual UL approval at each facility with quarterly audits, and perform QA audits at our headquarters in Boston, MA.
4. **Flexibility** - Each of our manufacturing facilities have been selected for their best-in-class niche product and delivery solutions, ensuring our optimal facility is building every order.



TS-16949
Certified

ISO9001
Certified

ISO14001
Certified

- ▶ If you require additional information please contact us with any questions or requests.

North American Headquarters

174 Duchaine Blvd.
New Bedford, MA 02745
Tel: (508) 995-5171
Fax: (508) 998-8694

Contact Us By Email:

Sales sales@epectec.com
Quotes quoting@epectec.com
Engineering engineering@epectec.com

Visit Our Website For More Information

www.epectec.com



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