

**A Recognized Leader in
Custom Electronics and
Printed Graphics for Industry**

Membrane Switches

Silicone Keypads

Liquid Crystal Displays

Printed Circuit Boards

Resistive Touch Screens

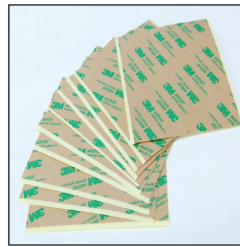
Membrane Switch Assemblies

Silicone Keypad Assemblies

Graphic Overlays and Labels



PG Technologies, Inc.
91 Servistar Industrial Way
Westfield, MA 01085
Tel 413.562.1354
Fax 413.562.0791
info@pgtechnologiesinc.com
www.pgtechnologiesinc.com



Graphic Overlays and Labels

PG Technologies manufactures commercially screen printed as well as digitally printed graphic overlays and labeling solutions. We offer a wide variety of materials and substrates, such as polyesters, polycarbonates and vinyls.

We specialize in *value-adding* services, which include design and engineering assistance, digital interchange of drawings and artwork via the internet, complete manufacturing capabilities and fast turn-around of quotes. From the design phase through to the finished product, our engineering staff reviews customer specifications and provides expert opinions and recommendations to ensure product reliability and functionality. Our flexible manufacturing processes allow us to produce prototypes and short production runs quickly, in a very cost-effective manner.

Our expansive commercial screen and digital printing capabilities ensures that PG can be competitive for virtually any type of graphic overlay and label application.

Available Capabilities:

- Variety of adhesives and overlaminates
- Key embossing
- Protective coatings and matte/gloss finishing
- Selective texturing
- Transparent inks
- Dead fronts
- LED and Window displays
- Die and Flat bed modular cutting

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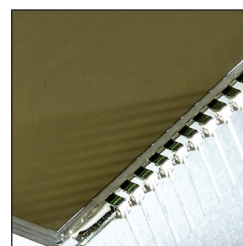
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Policies

NORMAL MANUFACTURING LEAD-TIMES:

Membrane Switches and Touch Screens: 5-7 Working Days for Approval Drawings, 15-20 Working Days for submittal of Approval Samples, and 15-20 Working Days for Production Quantities, after Sample Approval.

PCB-Mounted and Metal-Panel-Mounted Keypads: 5-7 Working Days for Approval Drawings, 20-25 Working Days for submittal of Approval Samples, and 20-25 Working Days for Production Quantities, after Sample Approval.

LCD Displays: 7 Working Days for Approval Drawings, 30-35 Working Days for submittal of Approval Samples, and 30-35 Working Days for Production Quantities, after Sample Approval.

Silicone Keypads and Keypad Assemblies: 7 Working Days for Approval Drawings, 35-40 Working Days for submittal of Approval Samples, and 35-40 Working Days for Production Quantities, after Sample Approval.

Printed Circuit Boards (Bare PCBs): Pricing will be different for the various manufacturing lead-times offered. Typical Prototype lead-times are 10-12 Working Days (to destination); typical Production Lead-Times are 15-18 Working Days and 20-23 Working Days (to destination).

Polycarbonate Faceplates, Overlays, and Panels: 5-7 Working Days for Approval Drawings, 15 Working Days for Approval Samples, and 15 Working Days for Production Quantities, after Sample Approval.

Labeling (Polycarbonate, Mylar, Vinyl, Foil, etc.): 10 Working Days for Approval Samples, and 10 Working Days for Production Quantities, after Sample Approval.

EAU PRICING / PRODUCTION QUANTITY MANUFACTURING

Basic parameters of an EAU pricing/production quantity manufacturing agreement would be:

- PG Technologies would produce 1 Quarter's worth of product, based on a customer's estimated annual usage, and store it in our warehouse in Westfield, MA.
- The customer would give PG Technologies shipping releases as needed, respecting certain minimum release quantities as agreed-to between the customer and PG Technologies.
- PG Technologies would invoice for each shipment separately.
- PG Technologies will invoice for any portion of the Inventory that is rendered obsolete by engineering changes, etc.

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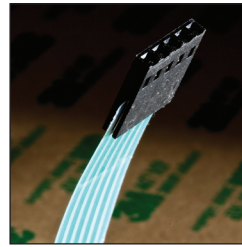
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Membrane Switches

PG Technologies is a recognized leader in the manufacture and distribution of membrane switches and printed-electronics. We specialize in *value-adding* services, which include design and engineering assistance, digital interchange of drawings and artwork via the internet, complete manufacturing capabilities (PCBs and LEDs included), and fast turnaround of quotes and orders. From the design phase through to the finished product, our engineering staff reviews customer specifications and provides expert opinions and recommendations to ensure product reliability and functionality. Our flexible manufacturing processes allow us to produce prototypes and short production runs quickly, in a very cost-effective manner.

Manufacturing Capabilities and Design Options

- Flat and tactile touch features; metal dome and 'polydome' options; EMI/RFD and ESD protection.
- Metal and plastic backing plates; scratch-resistant windows; plastic bezels; back-lighting. Full screen-printing capabilities for graphic overlays, fascia panels, and product labeling; UV-resistant ink technology; conductive silver and graphite inks.
- Full range of finishes and keyboard options, including embossing, debossing, selective texturing, hardcoating, 'deadfront' graphics and tinted windows.
- Full range of materials and substrates, including polycarbonate, polyester, metal, vinyl, polyurethane, and other specialty materials.
- Full range of high-performance adhesives for varied needs and applications.
- 'Complete-unit' manufacturing capabilities, including supply of printed circuit boards, imbedded LEDs, and LCDs, supplied as a completed assembly.
- In-house CAD/CAM design and artwork generation capabilities, ensuring that design flexibility, manufacturing accuracy, and product quality is achieved to a very high level.



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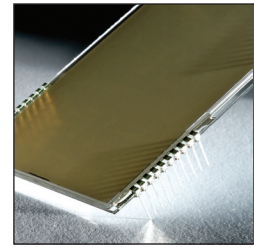
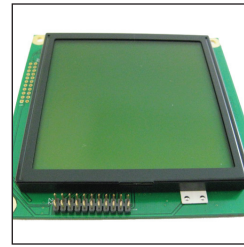
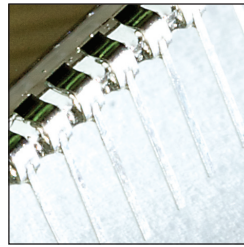
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Liquid Crystal Display (LCD) Technology

PG Technologies is one of the leading suppliers of Liquid Crystal Display (LCD) Technology to the instrument industry. Employing highly trained R&D professionals, and using advanced technology, our manufacturing facility has developed a range of products in accordance with market demand.

We are involved with the design, development and mass-production of digital segment dot matrix LCD panels and modules in TN, HTN, STN, FSTN and COG types. All products are manufactured in a 3,000 square meter facility in GuangZhou, PRC, with the annual output volume now standing at 36,000,000 panels and 1,000,000 modules. Flexible production processes have been implemented, whereby we are capable of filling all orders as efficiently as possible, regardless of size.

Using CAD design software, our staff has developed several thousand product types. These items are suitable for various applications, including as components in the telecommunication, medical, and analytical instrumentation industries, to name a few. Some of the advantages that we offer are as follows:

- Large range of Standard LCD Panels.
- Custom-designed LCD Panels.
- Large range of Standard Character, Graphic, and Alpha-Numeric LCD Modules.
- Custom-designed Character, Graphic, and Alpha-Numeric LCD Modules.

All LCDs are manufactured under the supervision of a comprehensive QC policy; which includes Quality Engineering (QE), Quality Auditing (QA), Incoming Quality Control (IQC), In-Process Quality Control (IPQC), Final Quality Control (FQC) and Outgoing Quality Control (OQC) procedures.

At PG Technologies, high performance is given to continuous product and process improvement, and we are continually introducing new LCD's for both the domestic and international markets. If you are interested in any of our products, or have a customized need to fill, please contact us now. Our pricing and manufacturing lead-times for samples and production units are among the best in the industry. We look forward to working with you regarding your LCD needs in the near future.