



Operator Interface

T E C H N O L O G Y

Rugged Keypads and Keyboards

# GRAPHIC OVERLAYS

## GRAPHIC OVERLAY KEYBOARDS



### APPLICATIONS

- Instruments
- Equipment
- Medical
- Scales

### FEATURES

- Chemical Resistant
- Sealed
- Easily Cleaned
- Long lasting



Graphic overlay keyboards offer the greatest flexibility with colors and textures. These keyboards are very low profile and are sealed both front and back to withstand very rugged environments.

## OPTIONS

**Material** Polycarbonate is the most common type of material used. Polycarbonate is very durable, highly scratch resistant when used with proper hard coats, and is extremely resistant to



a wide range of chemicals. It also allows well defined embossing and yields brilliant colors.

Polyester is used when higher levels of chemical resistance are required. Technical specifications for each material are available upon request.

**TEXTURE** A variety of textures are available on both Polycarbonate and Polyester. The most common texture used for graphic overlays is velvet. The velvet texture is a hard coat that provides anti-glare, resists fingerprints and is very easy to clean.

Consult the factory for other textures.

**TACTILE RESPONSE** The “feel” of the metal dome switch is a function of the dome travel and the trip force. It is difficult to choose the tactile response from a specification. We suggest trying a few samples, which we can provide.

**Color** The most accurate duplication of

color is achieved when a color chip is provided. When color chips are not available the Pantone matching System (PMS) provides an industry standard for mixing inks and colors may be selected from a Pantone book.

**EMBOSSING** The keys can be either pillow embossed, rim embossed or no emboss. The tactile feel remains the same.

**WINDOWS** Many keyboards need a transparent window to allow the viewing of LCD displays. In this case a clear hard coat is applied to the window area to make it scratch resistant. A translucent color may be added to the window areas for LED displays.

**LIGHTING** The most common type of lighting used with graphic overlay keyboards is enunciator LED's. A small area of the overlays either clear or silk-screened with a dead front and becomes visible when the LED is illuminated. Back lighting of the legends is also possible with fiber optic lighting or E.I. Lamps.

**SHIELDING** electrostatic discharge (ESD) shields can be provided in a variety of forms and with a number of termination techniques. We will work with your Engineers to design the optimum shield for your application.



Typical layout for a graphic overlay keyboard.