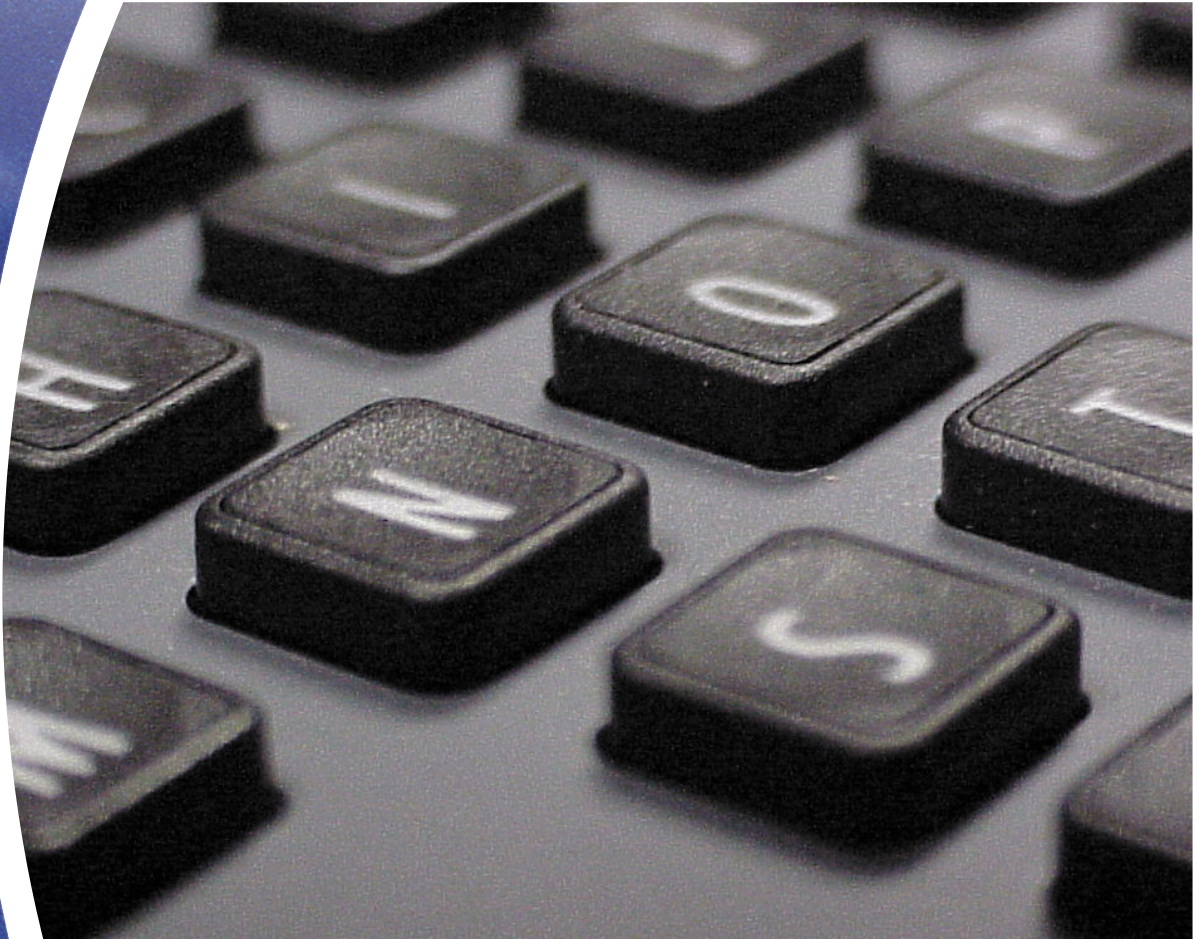




## Integrated Switch Panels Switch Panels, Keyboards and Bezels



### Custom Solutions for Integrated Switch Panels

IDD offers a variety of integrated switch panels for flight decks. We have developed proprietary keyboard designs that result in optimum switching and industry-renowned crisp tactile feedback.

IDD is the preferred technology for both the Boeing and Airbus fleets. Our military installations include the F/A-18 Super Hornet, F/A-22 Raptor, and Airbus A400M aircraft.

Our keyboards are trans-illuminated to MIL-P-7788F and MIL-L-8562 specifications. The result is homogenous illumination and low power consumption. Annunciation can be provided on the pushbuttons or separately on the front panel. It can be sunlight-readable per MIL-S-22885.

IDD Aerospace is a manufacturer of illuminated products for commercial and military flight decks. We are based in Redmond, Washington, USA and our primary products include lightplates, control panel assemblies and integrated switching panels.





### Capabilities

#### Features

- Simple, value-engineered design
- Sealed switches
- Gold-plated, wiping three point contacts
- Spill-proof construction
- Transillumination per SAE-AS-7788

#### Optional Features

- Sand/Dust Sealing
- EMI/RFI Shielding
- Sunlight Readable Annunciators
- Potentiometer or Switchable Dimming
- Elastomeric Keypad
- LED Designs Match Incandescent Curve

#### Mechanical

Life: Over 1,500,000 Actuations

Actuation Force: Cust. Specified: 20+/- 5oz. nominal

Total Travel: 0.050 nominal

Pre-travel: .015 minimum

Over-travel: .010 minimum

Panel Depth: .375 minimum with flush key caps and transillumination

Panel Termination: Customer preference

Lamp: T-1 unbased lamp mounted on circuit board or single chip White, Amber or Green LED's rated > 150,000 hour life

Illuminated Color: (LED) Unfiltered White or IPL White, Amber or Green; (Incandescent) IPL White

Switch Size: Mounts on .470 centers; .400 square key cap is standard

Panel Material: Machined aluminum or Acrylic plastic

#### Electrical

Contact Rating (maximum): 3 watts or 100 volts DC or 50 milliamps

Contact Type: SPST-NO; gold-plated contacts

Contact Bounce: Less than 1 millisecond

Contact Resistance (Initial): Less than 25 milliohms

Insulation Resistance: 400 megohms

Dielectric Strength: 300 VRMS

#### Environmental

Temperature

(Operating): -55°C to +85°C

(Storage): -65°C to +95°C

Designed to meet the environmental requirements of MIL-S-22885 and applicable portions of SAE-AS-7788



## IDD AEROSPACE