



Rugged Off-Road Vehicle Control Keypad

Keetronics (India) Pvt.Ltd. is a specialist in customised input devices from last 32+ years. Specialized into manufacturing of rugged keypads, membrane, Silicone-rubber, Duraswitch & PCB based keyboards for medical, defense, railway, industrial and vehicular applications. We offer silicone hybrid keyboards designed for harsh environments. Provides excellent tactile feedback with customizable key-top shapes (contours, legends), enabling reliable operation even while wearing gloves. When properly coated and finished, the keypad offers high resistance to abrasion, UV exposure & common cleaning chemicals, while ensuring effective IP protection.

Recommended Technology Stack for Off-Road Vehicles

Optimised for durability, tactile performance and long service life

- **Silicone Rubber Keypad :**

Excellent tactile feedback with customizable key shapes, legends and counters. Supports reliable operation with gloves.

- **DuraSwitch High-Life Pushbuttons :**

Thin, low-profile tactile switches rated for 30 million-plus life cycles. Ideal for sealed assemblies requiring consistent key response.

- **Gold-Plated PCB Contacts :**

Hard or selective gold plating improves corrosion resistance and reliability in humid, dusty and high-vibration conditions.

Enclosure Design



Our off-road vehicle keyboards are designed to operate reliably in harsh environments and can be customized to meet specific functional and interface requirements.

Keypad Benefits :-



- **Rugged Design for Off-Road Conditions**
Designed to withstand dust, mud, water splashes, and vibration.
- **Glove-Friendly Operation**
Large tactile keys enable easy operation even with gloves.
- **Backlit Symbols for Night Visibility**
Clear illumination ensures readability in low-light and night driving.
- **Sealed & Weather-Resistant Construction**
Suitable for harsh outdoor environments and extreme terrains.
- **Customizable Icons & Functions**
Symbols and key functions can be customized as per vehicle application.
- **Long Life & High Reliability**
Engineered for millions of operations without performance degradation.
- **Compact & Ergonomic Layout**
Saves dashboard space while offering intuitive control.
- **Low Maintenance Solution**
Durable materials reduce service and replacement costs.
- **Communication Protocols**
We can offer "CAN output, RS-485, UART & USB"

Applications :-



Off-Road Vehicle

Designed for rugged terrains and adventurous pursuits



Military & Defense Vehicles

Crucial for national security and tactical operations



Construction & Mining Equipment

Essential for Infrastructure development & resource extraction



Utility Terrain Vehicles (UTV / ATV)

Versatile for recreational and work-related activities



Agricultural Machinery

Vital for modern farming practices and sustainability

