

● Company Overview

1. What is Keetronics?

Keetronics (India) Pvt. Ltd. is a leading manufacturer of Human-Machine Interface (HMI) solutions, rugged keyboards, display systems, touch interfaces, and embedded electronics for industrial and mission-critical applications.

2. How long has Keetronics been in business?

Keetronics has over 32 years of experience in designing, developing, and manufacturing advanced HMI products and rugged electronic solutions.

3. Where is Keetronics located?

Keetronics is headquartered in Pune, Maharashtra, India, serving customers across India and international markets.

4. Which industries does Keetronics serve?

Keetronics serves a wide range of industries, including:

- Defence and Aerospace
- Rail Transportation
- Medical Equipment
- Industrial Automation
- Avionics
- Marine Systems
- Telecommunications
- Embedded Computing
- Healthcare Devices
- Computer Peripherals

5. Does Keetronics export internationally?

Yes. Keetronics supports global customers with custom-designed HMI products and rugged display solutions tailored to international standards and application requirements.

● Products & Solutions

6. What products does Keetronics manufacture?

Keetronics manufactures:

- Membrane Keyboards
- Capacitive Keyboards
- Silicone Rubber Keypads
- Braille Keyboards
- Backlit Keyboards
- Vandal-Proof Keyboards
- Long Travel Keyboards
- Short Travel Keyboards
- Optical Bonded Displays
- Rugged Display Systems
- Touch Panels
- Graphic Overlays
- Embedded HMI Solutions
- MIL-Grade Input Devices

7. Does Keetronics offer customized solutions?

Yes. Every product can be customized according to application requirements, including:

- Layout and key design
- Interface protocols
- Backlighting
- Environmental sealing
- Mounting methods
- Materials and finishes
- Display integration
- Branding and labeling

8. Can Keetronics support OEM and private-label manufacturing?

Yes. Keetronics supports OEM, ODM, and private-label manufacturing programs for global customers.

9. What display sizes are available?

Keetronics offers rugged display solutions ranging from 3-inch compact displays to 27-inch industrial-grade monitors.

10. Does Keetronics provide touchscreen integration?

Yes. Resistive, capacitive, and custom touch technologies can be integrated into display solutions based on application requirements.

11. What is a rugged display?

A rugged display is engineered to operate reliably in harsh environments involving vibration, shock, dust, moisture, extreme temperatures, and outdoor conditions.

12. What is optical bonding?

Optical bonding is a process that eliminates the air gap between the display and cover glass, improving visibility, durability, touch performance, and environmental resistance.

13. What optical bonding technologies does Keetronics provide?

Keetronics offers both OCA (Optically Clear Adhesive) and OCR (Optically Clear Resin) optical bonding solutions.

14. What are the advantages of optical bonding?

Benefits include:

- Improved sunlight readability
- Reduced reflections
- Better contrast ratio
- Enhanced touch accuracy
- Increased impact resistance
- Prevention of internal condensation

15. Does Keetronics offer accessibility solutions?

Yes. Keetronics develops Braille keyboards and specialized accessibility-focused input devices for visually impaired users.

● Keyboard Technologies

16. What keyboard technologies are available?

Keetronics offers:

- Membrane Technology
- Capacitive Switching Technology
- Silicone Rubber Technology
- Mechanical Key Technology
- Hybrid Keyboard Designs

17. What is a capacitive keyboard?

A capacitive keyboard uses electronic sensing technology instead of mechanical contacts, providing high reliability, long life, and excellent environmental resistance.

18. What is a membrane keyboard?

A membrane keyboard uses flexible printed circuits and pressure-activated switches, making it lightweight, compact, and highly customizable.

19. What are backlit keyboards?

Backlit keyboards contain integrated illumination systems for operation in low-light and night-time environments.

20. Can keyboards be customized for night vision applications?

Yes. Keetronics designs NVIS-compatible keyboards for defence and aerospace applications.

21. Are multilingual keyboards supported?

Yes. Keyboards can be manufactured with custom legends, languages, symbols, and regional layouts.

22. Can Keetronics develop sealed keyboards?

Yes. Fully sealed keyboards can be designed to meet high IP protection requirements for harsh environments.

• Keyboard Technologies

23. Does Keetronics provide design support?

Yes. Keetronics assists customers throughout the design lifecycle, from concept development to production.

24. Can Keetronics help with prototype development?

Yes. Engineering teams support rapid prototyping, design validation, and pre-production testing.

25. Does Keetronics provide electronics design services?

Yes. Embedded electronics, PCB design, firmware integration, and interface development are available.

26. Can mechanical design be included?

Yes. Keetronics offers complete mechanical design support including housings, enclosures, mounting systems, and industrial design.

27. Does Keetronics provide UI/UX support?

Yes. Human-machine interface design, graphic overlays, labeling, and usability optimization services are available.

• Technical Specifications

28. Which communication interfaces are supported?

Supported interfaces include:

- RS-232
- RS-422
- RS-485
- I²C
- SPI
- TTL
- USB
- Ethernet (project dependent)

29. What environmental protection ratings are available?

Depending on product design:

- IP54
- IP65
- IP67
- Ip68

30. Are products suitable for outdoor environments?

Yes. Products can be designed for outdoor operation with sunlight readability, weather protection, UV resistance, and environmental sealing.

31. Can products operate in extreme temperatures?

Yes. Products can be engineered for demanding temperature ranges including defence, aerospace, and outdoor applications.

32. Does Keetronics support EMI/EMC requirements?

Yes. Products can be designed with shielding and filtering solutions to meet EMI/EMC compliance requirements.

33. Are MIL standards supported?

Yes. Products can be developed to support various military and defence specifications based on customer requirements.

● Manufacturing & Quality**34. What manufacturing capabilities does Keetronics have?**

Capabilities include:

- Precision Assembly
- Optical Bonding
- Membrane Switch Manufacturing
- Silicone Keypad Production
- Display Integration
- Electronics Assembly
- Prototype Manufacturing
- Volume Production

35. Does Keetronics operate cleanroom facilities?

Yes. A Class 100 cleanroom facility is used for optical bonding and precision manufacturing processes.

36. Are products tested before shipment?

Yes. Products undergo functional, environmental, reliability, and quality inspections before dispatch.

37. Can Keetronics support low-volume production?

Yes. Both low-volume and high-volume manufacturing programs are supported.

38. What quality standards are followed?

Manufacturing and quality processes are aligned with international industry standards and customer-specific requirements.

39. Can Keetronics support long product life cycles?

Yes. The company regularly supports long-term industrial, defence, transportation, and medical programs requiring extended product availability.

• Certifications & Compliance

40. Which standards and certifications are supported?

Depending on project requirements:

- RoHS Compliance
- REACH Compliance
- UL Requirements
- IP Testing Standards
- EMI/EMC Standards
- Defence and Military Standards

41. Can documentation and compliance reports be provided?

Yes. Relevant test reports, compliance documentation, and project-specific quality records can be provided as required.

• Project Support

42. Does Keetronics offer end-to-end project execution?

Yes. Keetronics provides complete solutions from concept to production.

Services include:

- Requirement Analysis
- Industrial Design
- Mechanical Design
- Electronics Development
- HMI Design
- Prototyping
- Testing
- Manufacturing
- Product Support

43. How early should customers engage with Keetronics?

Customers are encouraged to involve Keetronics during the concept and design phase to optimize performance, manufacturability, and cost.

44. Can Keetronics collaborate with international engineering teams?

Yes. The company routinely works with customers, consultants, OEMs, and system integrators worldwide.

45. Does Keetronics provide technical consultation?

Yes. Application engineering teams assist with product selection, technology evaluation, and solution development.

• Ordering & Contact

46. How can I request a quotation?

Customers can submit project details, drawings, specifications, or requirements through the contact channels available on the company website.

47. What information should be provided for a custom solution?

Typical requirements include:

- Application details
- Product dimensions
- Interface requirements
- Environmental conditions
- Quantity requirements
- Compliance standards
- Performance expectations

48. How long does prototype development take?

Prototype timelines vary based on complexity, customization level, and testing requirements.

49. Does Keetronics provide after-sales support?

Yes. Technical assistance and product support are available throughout the product lifecycle.

50. How can I contact Keetronics?

Website: www.keetronics.com

Email: enquiry@keetronics.com

Phone: +91 96898 95658