

Technical Datasheet

Foot Pressure In-sole Sensor

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| Datasheet Name | Technical Datasheet for Foot Pressure Sensors |
| Version | V 1.0 |
| Latest edit date | 14-03-2023 |
| Model | Standard |

What is Linepro's Foot Pressure Sensor

Linepro's Foot Pressure Sensor system is an electronic insole inside the shoe made using printed flexible electronics technology used to monitor pressure patterns- wirelessly. Eight FSR sensors (Standard, can be customized) are installed in the foot- one at each toe, three at the metatarsal region and three at the heel. To analyze and study pressure distribution, the plantar pressure is considered. The Foot Pressure Sensor's signal is processed by microcontrollers and sent to the mobile device via Bluetooth module (Standard, we can implement other wireless modules too!). With the help of Internet-of-Things (IoT), when the pressure signal surges beyond a predefined limit, a notification will be sent to the consulting doctors and physiotherapist to record or take necessary actions. Linepro's foot pressure system will help the doctors/physiotherapist and people keep track of their health. The device is used by both the patient as well as the doctor to diagnose and treat the condition.

Get Insights about foot problems

Detect asymmetries between a person's foot

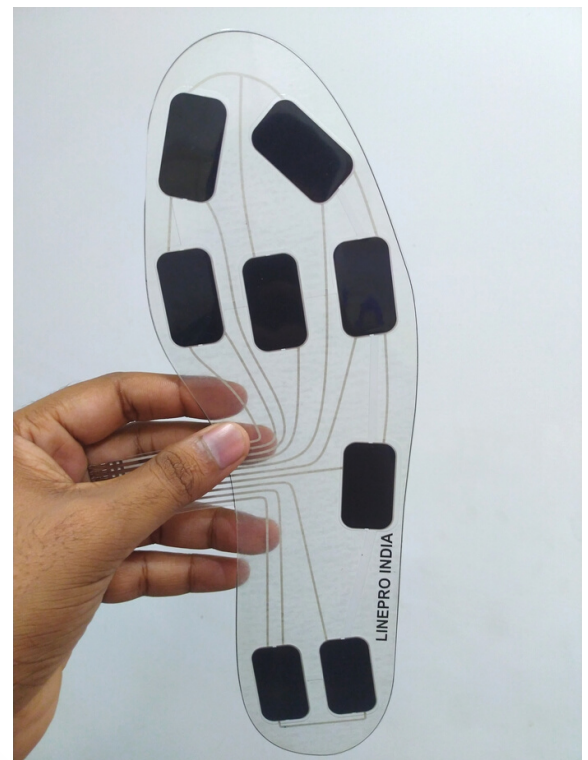
Monitor effectiveness of medical treatments

Can be integrated with remote monitoring systems

Finding discrepancies of plantar pressure between both feet

Benefits of Linepro's Foot Pressure Sensor

- ✓ Customized in-sole design
- ✓ Flexible & thin, comfortable to use
- ✓ Accurate and reliable readings and results
- ✓ Can be integrated with various IoT, software and controller systems
- ✓ Durable & rugged, can be used for retail purposes



Sensor Specifications

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|---|----------------------------------|
| Technology | Piezoresistive |
| Number of sensing points | 8 points |
| Sensing Area [Single sensor dimension] | 34*19 mm |
| Single sensor resistance range | 100 to 250 ohm |
| Pressure range | 0 -71 PSI (0 to 5kg/cm2) |
| Conductive Paste | Copper and Carbon |
| Overall Thickness | 0.5mm |
| Material Type | (PET) Polyester |
| Dimension (Standard) | 240*90 mm |