

Home (<http://ipindia.nic.in/index.htm>) About Us (<http://ipindia.nic.in/about-us.htm>) Who's Who (<http://ipindia.nic.in/whos-who-page.htm>)
 Policy & Programs (<http://ipindia.nic.in/policy-pages.htm>) Achievements (<http://ipindia.nic.in/achievements-page.htm>)
 RTI (<http://ipindia.nic.in/right-to-information.htm>) Feedback (<https://ipindiaonline.gov.in/feedback>) Sitemap (<http://ipindia.nic.in/itemap.htm>)
 Contact Us (<http://ipindia.nic.in/contact-us.htm>) Help Line (<http://ipindia.nic.in/helpline-page.htm>)

[Skip to Main Content](#)



(<http://ipindia.nic.in/index.htm>)



(<http://ipindia.nic>)

Patent Search

Invention Title	IOT Based Saline Level Monitoring System
Publication Number	1/2025
Publication Date	03/01/2025
Publication Type	INA
Application Number	202441101758
Application Filing Date	22/12/2024
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	BIO-MEDICAL ENGINEERING
Classification (IPC)	A61M5/14, A61M5/168, G16H20/17, G16H40/67, A61M5/172

Inventor

Name	Address	Country
M. K. V. Subba Reddy	Vishnu Institute of Technology, Vishnupur, Bhimavaram -2, West Godavari, Andhra Pradesh, Pin : 534202, India.	India
Priya Harika T	Vishnu Institute of Technology, Vishnupur, Bhimavaram -2, West Godavari, Andhra Pradesh, Pin : 534202, India.	India
D. S. H. Bharath Pali	Vishnu Institute of Technology, Vishnupur, Bhimavaram -2, West Godavari, Andhra Pradesh, Pin : 534202, India.	India
Surya Ashok Pala	Vishnu Institute of Technology, Vishnupur, Bhimavaram -2, West Godavari, Andhra Pradesh, Pin : 534202, India.	India
Gayatri Kanchi	Vishnu Institute of Technology, Vishnupur, Bhimavaram -2, West Godavari, Andhra Pradesh, Pin : 534202, India.	India
Keerthi Kodiboina	Vishnu Institute of Technology, Vishnupur, Bhimavaram -2, West Godavari, Andhra Pradesh, Pin : 534202, India.	India

Applicant

Name	Address	Country
Vishnu Institute of Technology, Bhimavaram	Vishnu Institute of Technology, Vishnupur, Bhimavaram -2, West Godavari, Andhra Pradesh, Pin : 534202, India.	India

Abstract:

Abstract The rapid advancement of the Internet of Things (IoT) technology has revolutionized various industries by enabling real-time data collection, analysis, and decision making. In the healthcare sector, IoT has the potential to enhance patient care and safety through the monitoring of medical equipment and supplies. This paper presents a system for monitoring the saline levels in medical facilities, aiming to ensure a continuous and adequate supply of saline solution for patient care. The proposed system consists of wireless saline level sensors, a central data processing unit, and a user interface. The wireless sensors are strategically placed within saline storage containers and continuously measure the level of saline solution. These sensors are integrated with low-power communication modules that transmit the collected data to a central unit. The central unit processes the incoming data, performs analysis, and generates alerts in case of critical saline levels or anomalies. A user-friendly interface is developed to provide real-time access to the saline level information. Medical staff can monitor the saline levels remotely using this interface, enabling proactive management of saline supply. The proposed saline level monitoring system offers a reliable and efficient solution to address saline supply management challenges in healthcare facilities. By providing continuous monitoring and alerts, it empowers medical staff to take timely actions, reducing the risk of supply shortages and contributing to enhanced patient care.

Complete Specification

Description: IOT Based Saline Level Monitoring System

Field of Invention

The present invention relates to the field of healthcare and Internet of Things (IoT) technologies. Specifically, it introduces an IoT-based Saline Level Monitoring System designed to automate and enhance the process of monitoring saline levels in intravenous (IV) drip systems. This invention addresses the critical need for real-time monitoring in healthcare settings, ensuring timely intervention and reducing the risk of complications arising from empty IV bottles.

This invention focuses on utilizing IoT-enabled sensors and communication modules to continuously track the saline level in IV bottles. The system is capable of sending alerts to medical staff or caregivers through connected devices, such as smartphones or computers, ensuring prompt action when the saline level drops below a predetermined threshold.

By combining IoT technology with healthcare applications, this invention offers a reliable, efficient, and user-friendly solution to enhance patient care. It reduces the workload on medical staff, minimizes human error, and ensures better management of intravenous therapy, making it an invaluable tool for hospitals, clinics, and home care environments.

Objective of the Invention

The primary objective of this invention is to develop a system that automates the monitoring of saline levels in IV drip systems using IoT technology. The system aims to provide real-time alerts to medical staff or caregivers when the saline level is critically low, ensuring timely refills and preventing complications such as air embolism or interrupted therapy.

[View Application Status](#)



[Terms & conditions \(http://ipindia.gov.in/terms-conditions.htm\)](http://ipindia.gov.in/terms-conditions.htm) [Privacy Policy \(http://ipindia.gov.in/privacy-policy.htm\)](http://ipindia.gov.in/privacy-policy.htm)
[Copyright \(http://ipindia.gov.in/copyright.htm\)](http://ipindia.gov.in/copyright.htm) [Hyperlinking Policy \(http://ipindia.gov.in/hyperlinking-policy.htm\)](http://ipindia.gov.in/hyperlinking-policy.htm)
[Accessibility \(http://ipindia.gov.in/accessibility.htm\)](http://ipindia.gov.in/accessibility.htm) [Archive \(http://ipindia.gov.in/archive.htm\)](http://ipindia.gov.in/archive.htm) [Contact Us \(http://ipindia.gov.in/contact-us.htm\)](http://ipindia.gov.in/contact-us.htm)
[Help \(http://ipindia.gov.in/help.htm\)](http://ipindia.gov.in/help.htm)

Content Owned, updated and maintained by Intellectual Property India, All Rights Reserved.

Page last updated on: 26/06/2019