



IOT Based Water Level Monitoring System

Suitable for Overhead & Under Slung Water Tank of IR LHB/ICF Coaches



VEBLINE-LC

- Easy Mountable to inside Coach.
- Sensor Made with SS-316 Grade.
- Sensor is durable precise.
- Work in any weather conditions.
- User friendly operation.
- Data gather in mobile, Server and PC software (Optional).
- Work in any 3G/4G/5G GSM network.
- Available in 2 Channel to 4 Channel and More.
- As per RDSO specification no. IS/RDSO-CG/00022:2025 dated 18.07.2025

The VEBLINE-LC system is an IoT Based automated alert system that will notify you of increasing or decreasing of water levels any time anywhere in India in day or night via SMS, giving you vital time to analysis the unnecessary water loss and filling the Water Tank (Overhead/Under slung) to next Station.

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The **VEBLINE-LC** is a self-contained data-logging device that records water level of Overhead & Under Slung Tank of LHB and ICF Coaches.

- Capture the water level data as quickly every 15 Min or can be capable to get data per sec.
- All this technology is neatly sealed within small corrosion resistant, SS-316/316L.
- Available in 12 mm to 20 mm dia or more.
- Available in 150 mm to 300 mm Length.
- Working Temperature 2° C to 55° C.
- Absolute pressure to depths of up to 100m.
- Impressive accuracy 0.05%.
- Ceramic/SS resistive diaphragm.
- Mounted with vibrating wire system.
- Working Pressure 0 to 8000 bar.
- Operating Voltage 05 to 30 V DC.
- Impedance 500 Ω.
- Response Time 500 MS



VEBNOD-E (Optional Not for Railway Uses)

The VEBNOD-E is IoT end node is quick response device, high efficiency low cost.

- Set up on very small area.
- Operating Temp. -20° C to + 60° C.
- Work in 12 volt DC up to 1 year battery life.
- Heavy reliance on sleep/deep-sleep modes to minimize consumption, waking only to send data.
- Typically low-power microcontrollers (MCUs) such as ARM Cortex-M series Processor.
- Easy integrate to Sensor.
- GPIO, ADC (Analog-to-Digital Converter), I2C, SPI, UART for peripheral connection.
- LPWAN (LoRa WAN, Sigfox, NB-IoT), Zigbee, Bluetooth Low Energy (BLE), Wi-Fi, Thread.
- Range up-to 15 Km.



VEBLINE unit for monitoring which can be used for all kind of vibrating wire gauge and transducers in all kind of weather conditions. The user friendly IoT Gateway following:

- IP-69 Complied Box DIN-rail mounts.
- Make with HDPE with Glass/Direct execution.
- Microprocessor base electronic control system.
- Continuous Monitoring and Data Logging & Easy operation.
- 3G/4G/5G GSM module is inbuilt in the gateway.
- High accuracy and resolution.
- Big 3.2" TFT mono/colour display.
- Long Battery Back-up 12 Volts/connect with Coach Electrical Line.
- Very portable to install in small place, Size 300 x 80 x 50 mm.
- Quick Response time.
- Wi-Fi (802.11 b/g/n/ax), Bluetooth Low Energy (BLE), Cellular (3G/4G/5G LTE/NB-IoT), Lo-Ra WAN.
- Multi-Protocol Support (MQTT, Mod bus, BLE).



VEBLINK PC Software (Optional)

The VEBLINK PC application is used to both set up the logging regime and to analyze data post deployment. A VEBLINK-PC-KIT is required for connection to your PC.s

- Set up the logging regime including location ID, logging frequency, start date and duration.
- Import and display data from a VEBLINE-LC.
- Export data as a spreadsheet for analysis.
- Store and save data sets to your PC.



Note : R&D is continue design can be change without any prior notice