

LegitFix

Radio Receiver



Communication

The LegitFix concentrator was developed for the remote reading of smart meters, with automatic data transmission via GPRS (2G) or LTE (4G). Communication with the WiserMeter server occurs in real time, providing complete control.

Innovation

Companies adopting **LegitFix** can monitor all their projects in real time through the exclusive asset management dashboard of the WiserMeter platform. Any issues are instantly flagged, enabling proactive resolution. Additionally, its bidirectional communication allows remote access to data and configuration parameters from anywhere, ensuring a continuous online connection.

General Features

- **Version:** GPRS, LTE, or Wi-Fi
- **Enclosure:** Fully sealed; electronic circuitry is inaccessible
- **Supported Media:** Multi-utility (water, gas, electricity, etc.)
- **Data Transmission Antenna:** Internal
- **Telegram Reception Antenna:** External (single input)
- **Meter Reading Capacity:** Up to 1,000 meters
- **LED Display:** 1 fixed LED and 3 interactive LEDs
- **Reception Range:** Up to 1,000 meters
- **Certification:** ANATEL certified



Comparative Advantages

- Developed with a customer-centric approach.
- The communication chip is owned by the manufacturer, allowing real-time monitoring of all indicators.
- Utilizes 4G communication for speed and reliability in IoT projects.
- Offers an exclusive bidirectional communication system enabling remote updates and the addition of new meters without physical presence.
- Fully integrated with the WiserMeter platform, automatically generating consumption reports.

Technical Specifications

- **Supported Frequency:** 434 MHz
- **Supported Protocols:** OMS, wMBUS (EN 13757), PRIOS, Real Data, Radian
- **Interfaces:** GPRS (2G), LTE (4G), or Wi-Fi
- **Telegram Capture Interval:** Remotely configurable (starting from 5-minute intervals)
- **Storage of Unsent Telegrams:** Over 200,000,000 telegrams
- **Firmware Update Capability:** Yes – fully remote
- **Telegram Packet Transmission Interval:** Remotely configurable (starting from 5-minute intervals)
- **Transmission Logic in Case of Network Failure:** Accumulates and transmits data in an organized First In, First Out (FIFO) manner
- **Asset Management Platform Integration:** Yes – full control over all parameters
- **Power Supply:** 110V to 230V
- **Typical Power Consumption:** 4.1 V

Environmental Conditions

- **Operating Temperature:** -4°F to 149°F (-20°C to +65°C)
- **Storage Temperature:** -13°F to 158°F (-25°C to +70°C)
- **Protection Class:** IP 54
- **Humidity:** 10% to 70% (non-condensing)

Dimensions

- **Width:** 90 mm + 7 mm (antenna connector)
- **Height:** 60 mm
- **Length:** 157 mm + 17 mm (cable gland)



Performance Monitoring

- Memory usage
- Data plan usage
- Equipment uptime
- Network connection uptime
- Number of files not sent due to network issues
- Operating voltage range

Network Data Monitoring

- Device location
- Carrier
- IMEI
- CCID
- IP address
- IMSI
- Signal quality

Remote Actions

- Change telegram transmission interval
- Update firmware to apply technical improvements
- Add or remove meters from the reading list
- Reduce reading intervals for a specific meter in case of a detected leak
- Monitor leak flow rates
- Trigger immediate transmission of readings outside scheduled periods
- View currently active meter readings
- Perform remote device reset if necessary

