



Engineering, research and design services offered by Leadsintec

1 Engineering, research and design services offered by Leadsintec

Leadsintec offers a range of engineering, research and design services including system design, circuit design, PCB design, Firmware development and programming and algorithm development.

Our specialty includes:

- Circuits for sensors and signal conditioning
- Wireless sensor networks
- Control applications
- Voice and audio processing
- General mixed signal circuit design

We focus on robust designs with minimum BOM cost, often reducing BOM cost by use of innovating signal processing and firmware design.

Following are examples of various designs by Leadsintec

• Sensors and signal conditioning:

Leadsintec has designed circuits for wide range of sensor, including signal conditioning and digital to analog conversions. Leadsintec has further designed digital signal processing algorithms to improve sensor performance. Sensors systems that Leadsintec has implemented include sensors for:

- Temperature
- Pressure
- Moisture
- different types of gas sensors
- proximity sensors
- flow sensors
- light sensors
- event sensors and more



Figure 1: CMS Sensor

• Wireless Sensor Networks

Leadsintec has developed its own wireless sensor network system that combines the positive properties of active and passive RFID networks. This sensor network can be custom tailored to almost any wireless sensor network need. Leadsintec offers a complete remote sensing and control product.

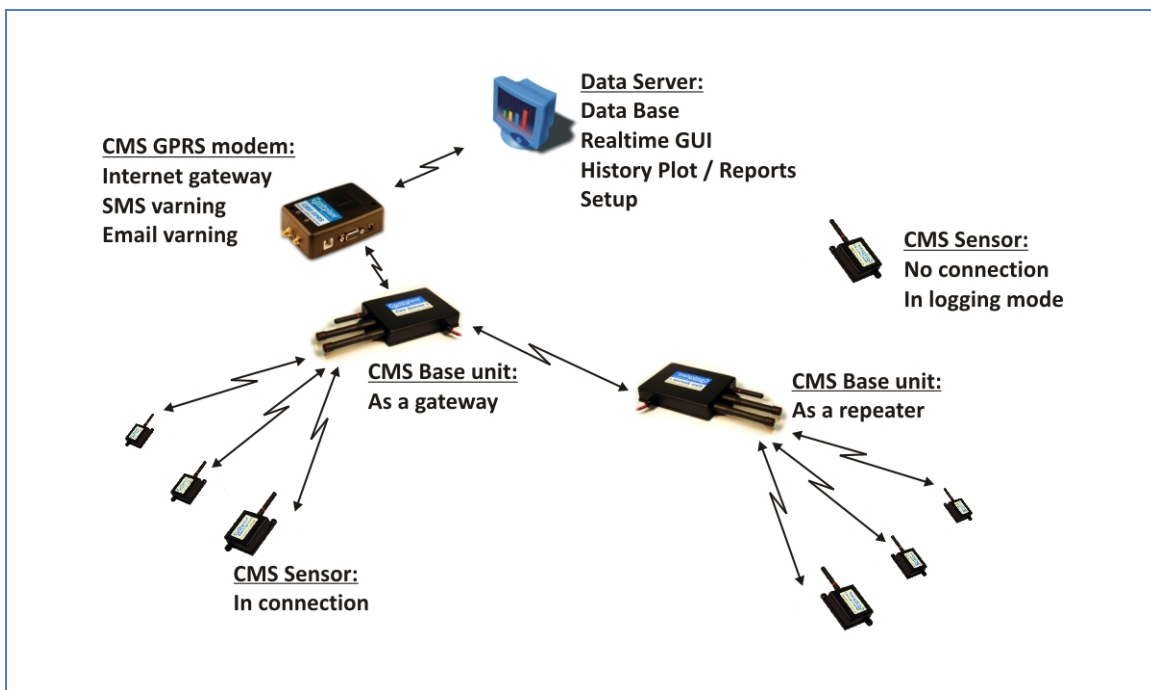


Figure 2: Leadsintec Monitoring System (CMS) overview

• Control Application

Leadsintec has a wide knowledge and experience in designing and implementing control system for system and industrial control. We use of state of the art design techniques for design or robust control methods. Current designs include:

- Temperature control of an Xray machine
- Design and Control of Bioreactor based on LEDs light and CO₂ as a source material
- Synching control of specific camera for eye diagnostics
- Control of cooling equipment
- Control of fishing equipment

• Voice and audio processing:

Leadsintec has the expertise to design various audio and voice processing devices, including:

- USB loudspeakers
- USB phones/speakerphones
- Docking stations for MP3 players and cell phones; with acoustic echo canceller and music playback enhancements.
- Wi-Fi music player
- and more

- General mixed signal circuit design

Leadsintec has designed many other specific circuits for wide range of applications and is always willing to take on new design challenges.



Figure 3: AccuSpeed 200, speedometer correction circuit.

2 Contact Information

Contact : Victor
Email: victor@leadsintec.com
Tel : 0086-15817390087

Our global design office
Iceland,,Brazil ,Italy, USA, Denmark
Austrilia, New Zealand