A PARTNERSHIP FOR THE FUTURE

Capabilities

Green Energy
- Solar power
- Power conversion solutions
- Remote connectivity
- Lithium battery management

Home Automation
- EPD screens
- Smart home technologies
- Wireless sensing
- Smart device connectivity
- Power control & management

Vehicle Connectivity
- V2V & V2X infrastructures modules
- On board connectivity
- Cellular and VANET
- Direct data transmission
- GPS/GLONASS/Wi-Fi/UMTS

Industrial Automation
- Remote diagnostics
- Monitoring & sensor control
- Industrial controls
- GSM connectivity
- Robotics

Open cloud services
- Open Source Flexibility
- Remote Monitoring, control & tracking
- IoT solutions for smart home, V2V & V2X

Patented Technologies
- Connectivity software
- Control & sensing hardware
- Diagnostic tools

KS2 CORP

LFP batteries

Lithium-iron-phosphate batteries with built-in control electronics with separate charge/discharge

Maximum charge current: 300A

(In development a new version of the battery, capable of charging with 400A current)

Maximum discharge current: 300A

(Unlike competitors, KS2 batteries can support maximum current for the full capacity of the module: 60 minutes for 200AH, 120 minutes for 400AH)

The built-in heating system provides an operating range of -20C to +65C.

Lifetime: 10 years, Self-discharge: 2% per month

Cell resource: 3000 cycles (90%), 4000 (80%)

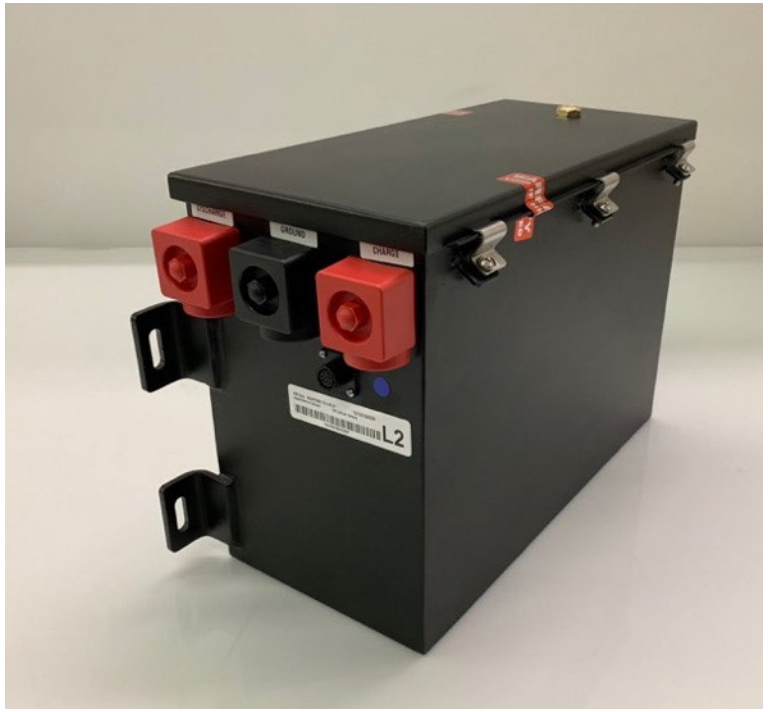
Efficiency: > 98%, Interfaces: CAN, BLE

Advantages:

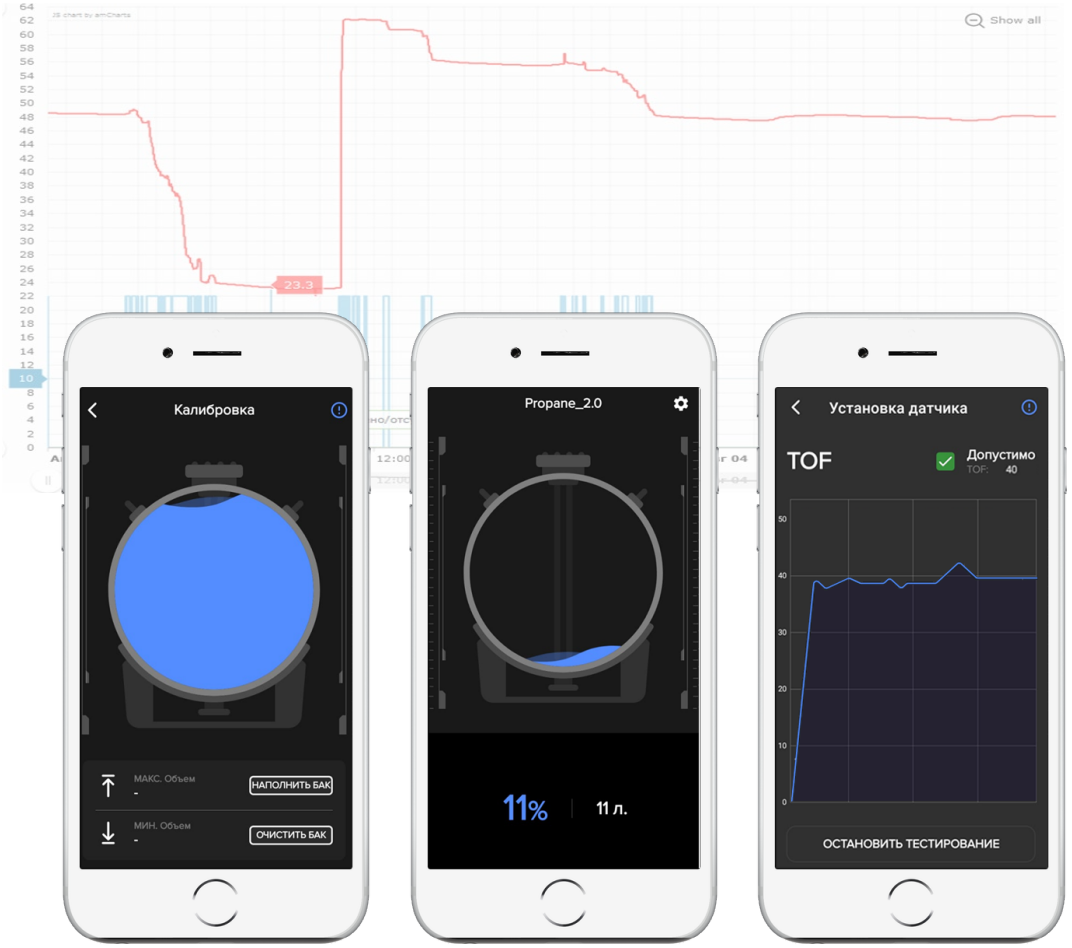
Compact, high power, high capacity. Lighter and takes up less space than equivalent acid batteries. Longer life span.

Market:

RVs, camping, boats, cottages, backup power systems.



LPG/CNG level sensor INRADIUS



Ultrasonic sensor for liquids and liquified gas INRADIUS

Applications:

- Vehicles with a hybrid engine using propane-butane as fuel
- Diesel and gasoline vehicles which cannot be equipped with a standard fuel level sensor for technical reasons (low tank height, complicated shape of the tank, inaccessibility of the tank interior)
- Level measurement of liquids and liquefied gases in domestic and industrial applications

The sensor is fully integrated with vehicle monitoring systems via RS-485 (LLS protocol).

CNG level sensor for vehicles

The sensor has a simple installation procedure. It uses pressure readings, temperature, shape and size of the cylinder to accurately determine the amount of natural gas. The gas quantity data can be transmitted to a vehicle monitoring system, mobile app or a display located in the vehicle interior.

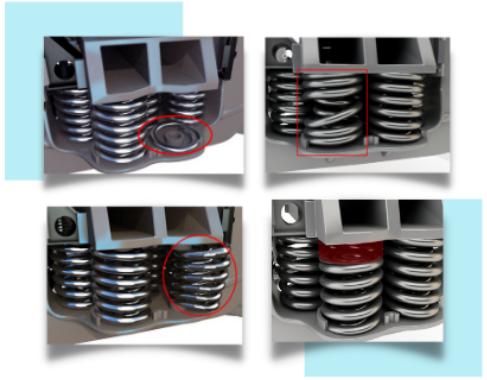
Applications: Vehicles using compressed natural gas as fuel

We are currently developing a convenient LNG measurement solution for transportation.

Railroad truck inspection system

Defects detection

Coil spring group

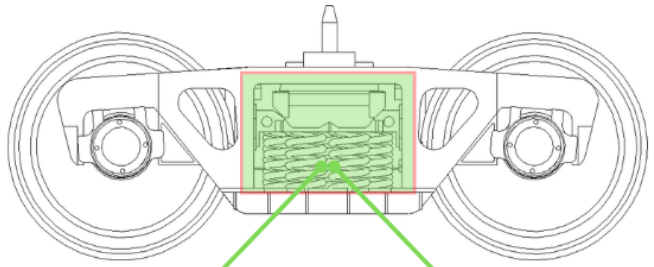


Contactless

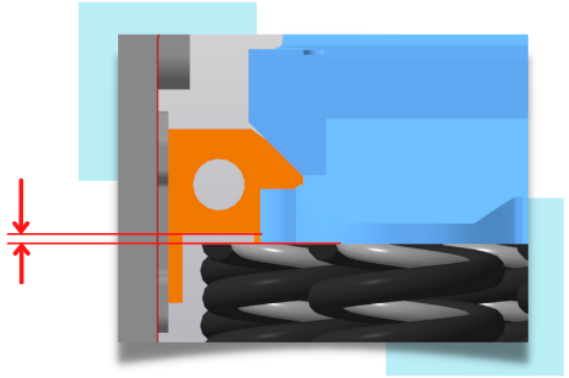
In-motion

Real-time

Fully automized

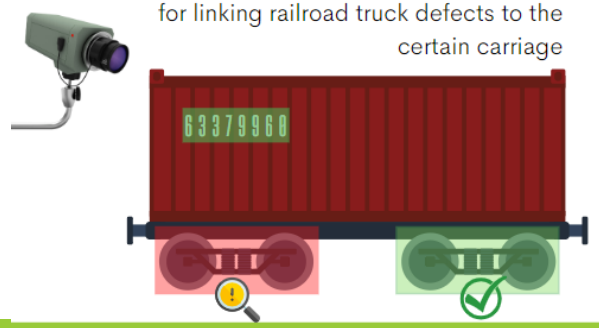


Friction wedge position



Carriage ID recognition

Real-time in motion carriage ID recognition for linking railroad truck defects to the certain carriage



Advantages

- Critical defects detection
- Reduce costs for manual inspection
- Inspection of all the trucks of the train in a few minutes
- Access the report immediatly through the cloud storage
- Reduces time costs – preorder broken parts or plan repair works

Powered by computer vision and machine learning

Case «Connected Cubbies»

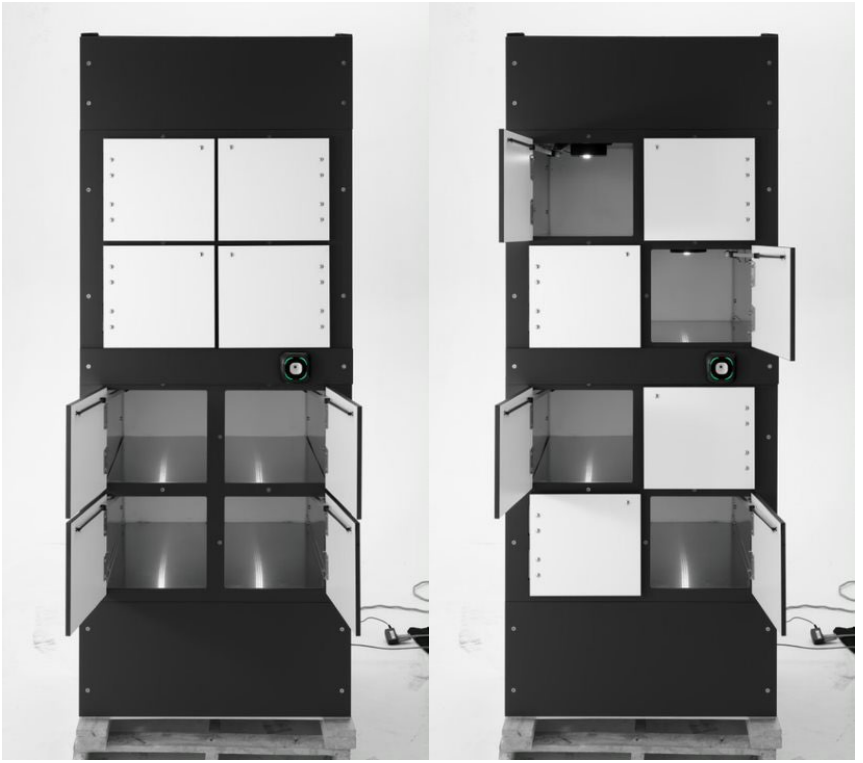
An intelligent storage system that allows you to deliver and receive items, goods and products completely contactless.

- ✓ Temperature control and maintenance
- ✓ Humidity sensor
- ✓ Exterior and interior video surveillance
- ✓ Electronic locking
- ✓ LED lighting
- ✓ Backup power
- ✓ Any number of boxes

- ✓ Automatic sanitation
- ✓ Box fullness detection
- ✓ Remote opening / closing of the box
- ✓ Motion sensor
- ✓ Tightness
- ✓ Data transfer via Wi-Fi/GSM
- ✓ Door lock sensor

•Link to the video:
https://youtu.be/jIqHPhu69kU

•Our partners in Canada:
https://infieldsolutionsinc.com/shoppe-iq/



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