



Sign Beacon School Zone Controller



APPLICATION DOMAIN

The Smart Road sign controller is designed to monitor the state of LED-based roadsigns and issue scheduled commands (eg. Turn on, Turn off, Configure feature etc.). The sign settings are configured from a web-based dashboard and are updated over the air. It offers the versatility to monitor and manage distributed assets to ensure that they are performing to specification. It has the added benefit of troubleshooting sign health, which leads to targeted preventative maintenance activities such as battery replacement and solar panel cleaning. The smart road sign controller is suitable for scheduling activities such as reduced-speed limit signs outside schools, or verifying remote transport warnings on LED smart-signs.

FEATURES

- Battery Voltage
- Pole Tilt
- Dimmer Value
- Radar Statistics
- Asset Location
- Web based Platform
- Temperature
- Light Sensor
- Panel Current
- Vandalism Alert
- Schedules

TECHNICAL SPECIFICATIONS

Input Voltage	7-14V(Nominally 12V)
Communication	RS232 (Power also over DB9)
Baud Rates	9600,19200,38400,56700,115200
Parity	NONE, ODD, EVEN
Stop bits	0,1,2
Radio	Sigfox

SigFox Network

The world's leading service provider for Internet of Things (IoT)



Our Network.

Sigfox is rolling out the first global 0G network to listen to billions of objects broadcasting data, without the need to establish and maintain network connections.

This unique approach in the world of wireless connectivity, where there is no signaling overhead, a compact and optimized protocol, and where object share not attached to the network.

Sigfox offers a software based communications solution, where all the network and computing complexity is managed in the Cloud, rather than on the devices. All that together, it drastically reduces energy consumption and costs of connected devices.

The transmission is unsynchronized between the device and the network. The device broadcasts each message 3 times on 3 different frequencies (frequency hopping). The base stations monitor the spectrum and look for UNB signals to demodulate.

The downlink process of Sigfox brings additional security robustness. When objects have their ears closed they can't listen to anything that might be sent by a hacker. The fact that the objects choose when to communicate and at which frequency is protecting them from a hacker sending them a misplaced, unattended command.

users at all levels (transport administrators, maintenance contractors, schools