



ULYS - L2 Smart GPS/GSM onboard beacon locomotives & trains surveillance

➤ **Ulys-L2 beacons provide real time data for fleet management systems :**

- ⇒ Increased asset productivity
- ⇒ Reduced operating costs (optimised maintenance)

Ulys-L2 beacons provide real time data for passenger information systems :

- ⇒ Improved quality of service to customer

Ulys-L2 beacons provide maintenance-free satellite tracking of passenger train for 18 months without connection to onboard power supply, and transmits information using SMS and Data mode technologies.

The compact size of the **Ulys-L2** beacon allows for easy installation on various types of engines without hindering regular maintenance operations.

Ulys-L2 beacons are designed to withstand the severe environmental conditions inherent to rail traction engines, such as high level electromagnetic fields, vibration and exposure to wide temperature changes.



➤ Technical characteristics

- **Autonomy** : 18 months
- **Power supply** : built-in lithium batteries
- **Dimensions** : 260 x 160 x 110 mm
- **Operating temperature range** : from -20°C to +70°C
- **Positioning information** : built-in GPS receiver
- **Positioning transmission** : dual band GSM modem (*SMS messages + Data Mode*)
- **Water-resistant** : IP 67
- **Electromagnetic compatibility** : EN 50121-3-2
- **Connectors** (option) : - 2 external ports RS 232
- 4 digital inputs
- **Compliant with Mapi software and with GAIA communication server**



- **Self-sufficient beacon** (no power supply required)
- **Position acquisition on demand**
- **Periodic position transmission**
- **Enriched location data with alert notification on delays to planned schedule, etc...**
- **Built-in movement detection device**
- **Read/write capabilities enabling remote parameter setting and software download by GSM**
- **Integrated self-test features for high level data reliability**
- **Periodic time-programmable logging report**