

Data Act Information Notice: GemOne Onyx V4

This information notice is provided in compliance with the EU Data Act to outline the technical requirements, characteristics, and properties of the GemOne Onyx V4 telematics unit and its associated services, as well as the rights and processes regarding the data it generates.

1. Technical Requirements, Characteristics, and Properties

1.1. Product Overview

The GemOne Onyx V4 is a smart telematics unit designed to provide basic tracking (location and usage based on inputs) alongside advanced functionalities, including geofencing, impact detection, and remote ignition blocking (access control).

1.2. Physical Specifications

- **Dimensions:** $166(L) \times 90(W) \times 40(H)mm$
- **Weight:** $336g$
- **Ingress Protection:** IP67 (dust and water-resistant)
- **Operating Temperature:** $-20C^{\circ}$ to $60C^{\circ}$

1.3. Power Properties

- **Working Voltage:** $9 - 97VDC$ with overvoltage protection up to $120V$.
- **Backup Battery:** $2550mAh$ Li-ion internal backup battery. The device can run autonomously for 24 to 48 hours depending on machine activity and sleep mode cycles.

1.4. Connectivity & Location Tracking

- **Cellular:** 4G LTE Cat 1 with 2G fallback.
- **Local Connectivity:** Bluetooth 5.4 & LE.
- **GNSS (Positioning):** Receiver supporting GPS, GLONASS, BDS, Galileo, and QZSS with an accuracy of 2.5meters.
- **Data Transmission:** To optimize bandwidth and power, the device transmits data upon status changes (e.g., location updates every 100meters when driving or 50meters when stationary, and input state changes).

1.5. Hardware Interfaces

The device utilizes a 35-pin connector providing the following interfaces:

- **CAN Bus:** 2 CAN-FD busses with automatic baud rate detection.
- **Inputs:** 8 analog/digital inputs (0 – 97V).
- **Outputs:** 2 digital outputs (built-in relays) supporting a maximum of 2A at 30VDC.
- **Serial/Access Control:** RS485 and a Wiegand interface for RFID keypad connection.

1.6. Installation Requirements

- **Mandatory Connections:** The device requires a continuous permanent power supply connected directly to the machine's battery (Bat+ and GND) and a connection to the machine's ignition key switch (Digital Input 1).
- **Mounting (GNSS):** The device must be mounted with the top label facing the open sky and must not be enclosed in a metal box to ensure proper GNSS and cellular reception.
- **Mounting (Impact Detection):** For accurate impact detection and autocalibration, the device must be firmly mounted to a rigid metal part of the machine's chassis (using double-sided tape or bolts). Zip ties or velcro are strictly prohibited.
- **Access Control:** If utilized, the ignition blocking relay must be wired to interrupt a low-current signal (such as the starter relay coil or seat switch) and must never exceed the internal relay rating of 2A/30VDC.

2. Data Access and Portability

Users are granted continuous access to the data generated by the Onyx V4 device via a secure, web-based portal using their designated login credentials.

All generated data remains the exclusive property of the user (the data owner). Upon the explicit request of the data owner, GemOne will make this data available and portable to any designated third party.

3. Data Processing, Purpose, and Retention

All telemetry and usage data generated by the device is stored securely for the full duration of the active contract.

The sole purpose of collecting and processing this data is to empower users to make informed operational and business decisions based on their machine insights. GemOne does not use or process this data for any internal purposes, nor is the data shared with, sold to, or made accessible to any unauthorized third parties.

4. Data Typology

[This section has been left intentionally blank and will be updated with a structured list of exact data points at a later date]