

# Technical specifications (Tacho)

| General                       |  |
|-------------------------------|--|
| Interfaces                    | <p>2 CAN lines operating simultaneously:</p> <p>CAN line1: FMS CAN (protocol J1939)</p> <p>CAN line2: digital tachograph</p> <p>Remote tachograph data download &amp; real time tachograph data</p> <p>FMS CAN (protocol J1939)</p> <p>Volvo/Renault CAN (protocol J1708, without adapters)</p> <p>Additional sensors via J1939 protocol</p> <p>OBDII (diagnostic protocol of light vehicles, SAE-1979 w/o adapters)</p> <p>CAN protocols of light vehicles (without adapters)</p> <p>1-Wire</p> <p>RS-232</p> <p>EIA-485</p> <p>Wiegand 26 bit</p> <p>Thermo data logger support (thermo King TouchPrint, DataCold, Transcan)</p> |
| Inputs                        | <p>4x digital (frequency, impulse counter, ON/OFF modes)</p> <p>3x analogue, 11 bit, 0-36V</p>   |
| Outputs                       | 2x digital, (-)  |
| Power supply                  | <p>8 – 31V</p> <p>Protection from impulses up to 150V</p> <p>Consumption at 12V: active: &lt;50mA, sleep: &lt;8 mA</p> <p>Registration of power cut-off to device event log</p> <p>Internal battery 210/700 mAh (optional)</p>   |
| Internal memory               | 8 B, up to 150.000 entries   |
| Accelerometer                 | 3 axis digital accelerometer   |
| Internal odometer             | +  |
| Operational temperature range | from -40 to +85 C°   |
| Dimensions                    | 68x90x19 mm  |
| Weight                        | Tracker – 64 g, set – 160 g  |
| <b>GSM</b>                    | <b>Internal antenna</b>  |
| GSM/GPRS class                | 10 (up to 85,6 kbit), class B  |
| Detection of GSM jamming      | +  |
| <b>GPS / GLONASS</b>          | <b>Internal antenna</b>  |
| Sensitivity                   | -162 dBm   |
| Acquisition                   | Cold <30 s, hot 1 s. A-GPS support   |