

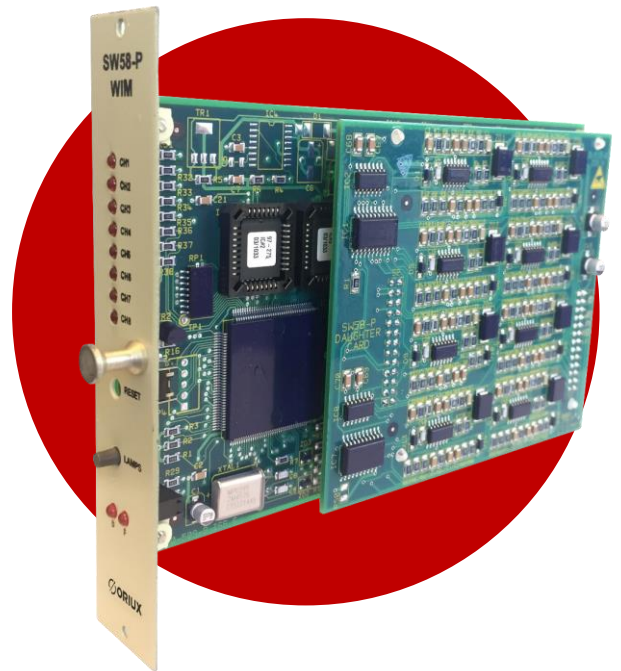
ADR-WIM

Piezo Weigh-in-Motion

The technically advanced multichannel ADR-WIM card from Oriux can be installed in the ADR Sabre, ADR-2000 Plus, or ADR-3000 Plus series of counters/classifiers, in either the semi permanent or permanent configurations. Installing a WIM card enables an ADR to emulate the dynamic weighbridge method of weighing heavy commercial vehicles at high speeds while retaining the full functionality and ease of use of the ADR interface.

Using one or two simply installed subsurface piezoelectric weighing sensors (with optional secondary sensors), the following types of data can be accurately collected: arrival time, vehicle speed and classification, gross vehicle weight, volumetric flow, individual axle weights and spacings, overload indications, Equivalent Standard Axle Loadings (ESALs), gap and headway, all in either binned or per-vehicle records. When short-term data is required, temporary stick-down sensors may be installed for cost effective surveys.

Site monitoring includes four-lane capability on the ADR Sabre Plus or up to twelve-lane capability when used in the ADR-2000/3000 Plus units. Data storage is provided by internal memory or by removable SD cards of up to 4 Gb capacity. Sites are generally battery powered, but solar or line power can extend your monitoring time indefinitely. The RS232 port, when connected to a PC, reports real-time data for alarm analysis.



ADR Sabre



ADR-2000 Plus



ADR-3000 Plus

Features & Benefits

- Simultaneous operation on up to 12 lanes
- Programmable vehicle classification schemes
- Per vehicle WIM - alarm output
- On-scale sensors detect lane straddling
- Dynamic auto-calibration
- User-friendly setup via PC, data card or keyboard
- Accepts SD memory cards up to 4 Gb
- High speed telemetry communications
- Solar rechargeable battery operation

Specifications

Weight	Portable ADR-2000-WIM recorder: Typically 17.6 pounds (8 kg) with battery Permanent ADR-3000-WIM rack recorder: Typically less than 15 pounds (7 kg)
Size	ADR-2000 P-WIM: 6.5"H × 9.5"W × 13"D (162 × 242 × 332 mm) ADR-3000 P-WIM: 5.25"H × 10" to 19"W × 9.35"D (135 × 225 to 480 × 240 mm)
Temperature	-40°F to +165°F (-40°C to +74°C)
Inputs	ADR Saber-WIM: Up to 4 lanes weigh-in-motion ADR-2000-WIM: Up to 12 lanes weigh-in- motion inputs, temperature input ADR-3000-WIM: up to 12 lanes weigh-in- motion.
Time	1, 2, 5, 6, 10, 15, 30 and 60 minutes
Intervals	2, 3, 6, 12 and 24 hours, real time Four daily peak periods available
Microprocessor	Intel 80C186
Data Capacity	Expandable up to 4 GB
Accuracy	Better than 90% confidence on gross weight, exceeds the ASTM standard

System Flexibility

The use of simply installed plug-in modules allows flexible installation of multilane configurations to suit specific site demands and provides ease of expansion when first ordered, or at a later date.

Any existing ADR Sabre Plus, ADR-2000 Plus, or ADR- 3000 Plus can be upgraded in the field for WIM operations. The upgrade is simple and cost-effective. Plug-in WIM modules, easy-to-connect wire harnesses and flash-loaded firmware are the major components required for the upgrade.