

ADR-WIM™ Piezo Weigh-in-Motion for ADR-1000/2000/3000 Units

The technically advanced multi-channel ADR-WIM card can be installed in the ADR-1000/2000/3000, semi-permanent or permanent configurations. Installing a WIM card enables the ADRs to weigh heavy commercial vehicles at high speeds while retaining the full functionality and ease of use of the ADR-1000/2000/3000 series of counters/classifiers. 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, road surface temperature, volumetric flow, individual axle weights and spacings, overload indications, Equivalent Single Axle Loadings (ESALs), gap and headway, and per vehicle records.

When short-term data is required, temporary stick-down sensors may be installed for cost-effective surveys.

Site monitoring includes a four-lane capability on the ADR1000/2000 or an eight-lane capability on the ADR-3000 range. Data storage is provided by internal memory or removable PCMCIA cards of up to 8 MB capacity. Sites are generally battery powered, but solar or line power backup extends monitoring time indefinitely. The RS232 port, when connected to a PC, reports real time data for alarm analysis.

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 during manufacture or at a later date.

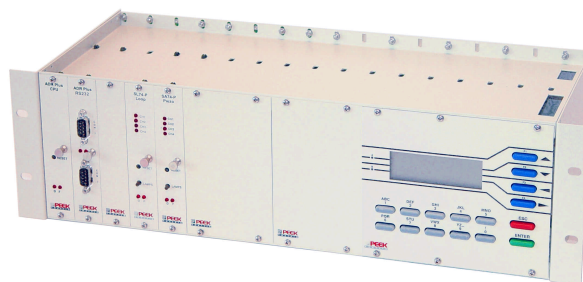
Any existing ADR-1000/2000/3000 can be upgraded in the field or shop for WIM operations. The upgrade is simple and cost-effective at most sites. Plug-in WIM modules, easy to connect wire harnesses and flash loaded firmware are the major components required for the upgrade.



ADR-1000



ADR-2000



**ADR-3000 WIM
19" EIA (170) Instrument Rack**

Features

- Up to 8 lane simultaneous operation
- Programmable vehicle classification schemes
- Per vehicle WIM - alarm output
- On-scale sensors
- Dynamic auto-calibration
- Road temperature sensing
- User-friendly setup via PC, data card or keyboard
- Accepts PCMCIA memory cards up to 8 MB
- High speed telemetry communications
- Solar rechargeable battery operation

Specifications

These specifications describe ADR-WIM and should be used in conjunction with the ADR-2000 Plus and ADR-3000 Plus datasheets.

| Characteristic | Description |
|-------------------------|---|
| 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 x 9.5"W x 13"D (162 x 242 x 332 mm) ADR-3000 P-WIM: 5.25"H x 10" to 19"W x 9.35"D (135 x 225 to 480 x 240 mm) |
| Temperature..... | -40°F to +165°F (-40°C to +74°C) |
| Display (optional)..... | 20 digit x 4 line liquid crystal display and keypad |
| Inputs | ADR-1000-WIM: Up to 8 weigh-in-motion inputs ADR-2000-WIM: Up to 16 weigh-in-motion inputs, temperature input ADR-3000-WIM: Sensor card inputs (in multiples of eight) of various types allowed, up to 24 weigh-in-motion inputs, temperature input |
| Time Intervals | 1, 2, 5, 6, 10, 15, 30 and 60 minutes 2, 3, 6, 12 and 24 hours, real time Four daily peak periods available |
| Microprocessor | Intel 80C186 |
| Data Capacity..... | Expandable up to 8 MB |
| Accuracy..... | Better than 90% confidence on gross weight, exceeds the ASTM standard |

| Characteristic | Description |
|----------------|--|
| Options..... | ADR-1000-WIM: <ul style="list-style-type: none"> • Up to 4 lanes of WIM • Solar power • PCMCIA memory card up to 8 MB • FHWA/ECC or custom classification tables ADR-2000-WIM: <ul style="list-style-type: none"> • Up to 4 lanes of WIM • Solar power • PCMCIA memory card up to 8 MB • FHWA/ECC or custom classification tables ADR-3000-WIM: <ul style="list-style-type: none"> • Up to 8 lanes of WIM • Solar power • Front panel keyboard and display • Battery backup • PCMCIA memory card up to 8 MB |

TOPS Data Analysis Software

With an additional WIM processing module for the TOPS Software package, you can process WIM data from the ADR-1000, ADR-2000, and ADR-3000 WIM recorders. With any of these units, you will be able to present data in per vehicle (PVR) mode, and in a variety of different PVR reports. Data export to Excel-compatible worksheets aids in fast and professional graphical display of your data. The Data Explorer module helps provide easy identification of required data, and functions permit site data to be selected, listed, deleted, and/or stored. An unlimited number of sites can be maintained by TOPS, and with the addition of automatic telemetry, it lowers the cost of data retrieval.

Two Year Limited Warranty

Peek Traffic Corporation warrants this product against manufacturing defects in materials and workmanship for two years from date of shipment from Peek. Specific contracts and regional laws may vary or alter these terms.

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Please contact Peek Traffic Corporation for customer inquiries about any of the company's Traffic Control, Data Collection, Enforcement, Detection, or Tolling products. To learn how Peek Traffic is making the world a safer place to travel, visit the Peek Traffic web site at <http://www.peek-traffic.com>.

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