

# ADR 2000 Plus

## Portable Traffic Counter/Classifier

The Oriux ADR-2000 Plus can be used as a portable or semi-permanent unit. In its basic configuration as a counter/classifier, 2 or 4 road tubes are available. With optional internal sensor modules, the ADR-2000 Plus can monitor up to 42 inputs using a combination of WIM, loops, piezos or contact inputs.

Available data types include per vehicle records, per lane data, binned vehicle classification by axle, speed, length, gap, headway or combinations of the above. Vehicles may be classified according to the FHWA Scheme "F" or a user-defined, classification scheme.

Water-barrier air switches eliminate the worry of internal water exposure from failed road tubes. Oriux's weatherproof housing provides a barrier against the elements of nature, helping to set the standard for durability and longevity in our entire ADR line of counter/classifiers. Quality is based on ISO9000 standards, enabling Oriux to provide environmental chamber tested, inspected, high-quality products.

Each unit can produce up to 8 studies, plus per vehicle records, with up to 4096 bins of data. The type, configuration and format of data to be collected can be custom programmed or selected by the user from menu-driven choices.



## Features & Benefits

- Simple to setup and operate
- 2 MB onboard memory (1 MB accessible)
- SD memory option for additional storage
- Multilane operation, up to 42 inputs
- Scheme "F" or user-defined classification scheme
- Solar power option
- U.S. standard or metric units
- Water-barrier air switches
- Weatherproof housing
- Integral keyboard with 4-line LCD readout
- Separate battery compartment
- Battery "sentinel"
- Auto daylight savings

## Specifications

|                     |  |                       |   |
|---------------------|--|-----------------------|---|
| <b>Housing</b>      | Rugged, stackable interlocking weatherproof cast aluminum housing and integrally cast carrying handle supplied with brass body lock, two matching keys | <b>Microprocessor</b> | Intel 80C186  |
| <b>Weight</b>       | Less than 17.6 pounds (8.0kg) with battery   | <b>Capacity</b>       | Approximately 3,280 days of volume data   |
| <b>Size</b>         | 6.5"H x 9.5"W x 13"D<br>(162mm x 242mm x 332mm)  | <b>Accuracy</b>       | ±1 count, per record, per second input  |
| <b>Temperature</b>  | -40°F to +165°F (-40°C to +74°C)   | <b>Battery</b>        | 6 volt 12 amp-hour rechargeable, sealed lead-gel battery protected by an automatic disconnect at 5.7 volts*   |
| <b>Display</b>      | 20 digits x 4 line liquid crystal display  | <b>Communications</b> | Selectable RS-232 serial baud rates between 300 and 19,200 baud, via a UL and CSA approved female socket. Optional second comport up to 115,200 baud. |
| <b>Inputs</b>       | Up to 42 sensor inputs, plus four water barrier air switches   | <b>Options</b>        | Up to 24 loop inputs, 24 piezo inputs, 48 contact inputs<br>24 WIM inputs<br>SD memory card socket<br>Solar power option                              |
| <b>Counter rate</b> | Handles 200 counts per second per input  |                       |   |
| <b>Interval</b>     | 1, 2, 5, 6, 10, 15, 30 and 60 minutes<br>2, 3, 6, 12 and 24 hours, real time events<br>Four daily peak periods available                               |                       |   |
| <b>Study period</b> | Preset 24, 48, or 72 hours, 7 days or continuous   |                       |   |

## Support Software

The ADR-2000 is compatible with VIPER, the next generation of Oriux data processing and polling software. VIPER works with most modern communication protocols and is intended to automate data collection and processing. After collection, data from one or more files can be automatically processed into a variety of formats, including TMG, PRN, XML, and XLS, based on user definable criteria. Automatic data verification and synchronization are also supported.

The ADR-2000 is also compatible with Vision. Similar to the Viper software, Vision is intended to be a Technician software allowing for the remote programming, monitoring, and manual data retrieval of Study data.

## Physical description

The Oriux ADR-2000 Plus is packaged in a self-contained weatherproof cast aluminum enclosure. The enclosure is sealed against environmental precipitation (IP67 accidental submersion up to three inches). The ADR-2000 Plus is expandable by function with individual plug-in modules. Compact, individual plug-in sensor modules are Eurocard in size with DIN standard connectors. Electrical connections (external) are via rear mounted UL and CSA approved weatherproof connectors. An internal 6 volt 12 amp hour rechargeable battery is supplied.

The ADR-2000 Plus provides immediate access to the separate battery compartment without tools. Power options include a lid mounted integral solar power and a battery charger. An internally-supported hardware real-time clock keeps time and date, regardless of unit power, for up to ten years. The clock can also be set to adjust automatically for Daylight Savings Time.

## Optional Features

The Oriux Traffic ADR-2000 Plus is a self contained, portable, multilane automatic vehicular traffic counter/ classifier that can be set up and operated via the integral smart keypad and interactive liquid crystal display. Alternatively, full operational control can be granted either remotely via telemetry, or directly in the field via a computer with appropriate software. Easy to-use menus allow configuration flexibility. Collected data is held onboard, secure from unintentional erasure or loss.