

925-455-5267  
Jam Services, Inc.

# ADR-2000 Plus™

## PORTABLE TRAFFIC COUNTER/CLASSIFIER

### DATA COLLECTION

The Peek Traffic ADR-2000 Plus provides optimal functionality 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 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, custom classification scheme.

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

Each unit can perform up to 8 studies, plus per vehicle records, with up to 356 bins of data, for example, classification by speed, by lane. The type, configuration and format of data to be collected can be custom programmed or selected by the user from menu-driven choices.



### FEATURES

- ▶ Portable traffic counter/classifier.
- ▶ Simple to setup and operate.
- ▶ 2 MB onboard memory.
- ▶ PCMCIA memory option for additional storage.
- ▶ Multilane operation up to 42 inputs.
- ▶ Scheme "F" or user-defined classification.
- ▶ Solar power option.
- ▶ US standard or metric units.
- ▶ Water-resistant air switch.
- ▶ Weatherproof housing.
- ▶ Integral keyboard with 4 line LCD readout.
- ▶ Separate battery compartment.
- ▶ Battery "sentinel".
- ▶ Auto daylight savings time.

### OPERATIONAL CHARACTERISTICS

The Peek 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. Preloaded setup files reduce confusion and operator errors. Collected data is held secure from unintentional erasure or loss.

### QUALITY ASSURANCE TESTING

Each unit is individually tested for correct operation during a computer controlled environmental chamber test cycle, based on the NEMA TS-2 standards. All input circuits have been designed and tested to the NEMA TS-2 standards for surge (lightning) protection.



## PHYSICAL DESCRIPTION

The Peek Traffic 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 10 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.

## PEEK TRAFFIC ADR-2000 PLUS SUPPORTIVE SOFTWARE

Of importance to the user of modern counters/classifiers is the operating and reporting software, which supports, controls and formats the resultant data. A user-friendly Windows software package is available to complement the Peek Traffic ADR-2000 Plus. This software is the Traffic Operations Processing Software (TOPS) program, which is available from Peek Traffic.

The TOPS program provides multi-file processing, stores data files into a single database for easy file sharing among TOPS users, allows for edit and preview of reports before printing, provides for both ADR and 241 data processing protocols, enables remote or local setup of Peek Traffic ADR units and collection of data by direct manual connection or by the added functionality of automatic telemetry polling of field sites via modem connection (auto polling and weigh-in-motion support are add-in options). The TOPS program reads all files and generates a suite of daily, weekly and monthly reports. A user-definable classification function, within the program, provides the ability to customize classification and to transfer the new scheme to the Peek Traffic ADR-2000 Plus. Processed data may be exported to various other software packages.

## TWO YEAR LIMITED WARRANTY

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



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## SPECIFICATIONS

### Characteristic

#### Housing

### Description

Rugged, stackable interlocking weatherproof cast aluminum housing and integrally cast carrying handle supplied with brass body lock, two matching keys.

#### Weight

Less than 17.6 pounds (8.0 kg) with battery.

#### Size

6.5"H x 9.5"W x 13"D  
(162mm x 242mm x 332mm)

#### Temperature

-40°F to +165°F (-40°C to +74°C)

#### Display

20 digits x 4 line liquid crystal display.

#### Inputs

Up to 42 sensor inputs plus four water-barrier air switches.

#### Counter rate

Handles 200 counts per second per input.

#### Interval

- ▶ 1, 2, 5, 6, 10, 15, 30 and 60 minutes.
- ▶ 2, 3, 6, 12 and 24 hours, real time events.
- ▶ Four daily peak periods available.

#### Study period

Preset 24, 48, or 72 hours, 7 days or continuous.

#### Microprocessor

Intel 80C186

#### Capacity

Approximately 3,280 days of volume data.

#### Accuracy

± 1 count per record per second input.

#### Autonomy

90 days, indefinite with solar option.

#### Battery

6 volt 10 amp-hour rechargeable, sealed lead-gel battery protected by an automatic disconnect at 5.3 volts.

*Note: Battery is retained in a separate compartment sealed from electronics and individually accessible for maintenance.*

#### Communications

Selectable RS-232 serial baud rates between 300 and 19,200 baud via UL and CSA approved female socket.

#### Options

- ▶ Solar power option.
- ▶ Up to 24 loop inputs, 24 piezo inputs, or 48 contact inputs.
- ▶ 8 or 16 WIM inputs.
- ▶ PCMCIA memory card socket.

Please contact Peek Traffic for customer inquiries about the company's Traffic Control, Data Collection, Enforcement, Detection or Tolling products. Visit the Peek Traffic Web site at [www.peaktraffic.com](http://www.peaktraffic.com).

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