



## Sustainable Solutions for Traffic Technologies



### ADR-2000 Plus Portable Traffic Counter/Classifier

A step up from the ADR-1000 plus, the Peek ADR-2000 Plus provides additional expansion options to the industry standard portable traffic counter. The ADR-2000 Plus can be configured to function either as a portable or as a semi-permanent unit. In its basic configuration as a counter/classifier, 2 or 4 road tubes are available. With additional internal sensor modules added, the ADR-2000 Plus can monitor up to 42 inputs using a combination of loops, piezos, WIM, or contact closure inputs.

## Overview

The Peek 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.

Each unit can perform up to eight simultaneous studies, plus generate per-vehicle records, with up to 356 bins of data. This could include, for example, classification (axle spacing) by speed, by lane, (volume). The type, configuration, and format of data to be collected can be custom programmed or selected from menu-driven choices based on installed optional sensor modules.

Available data types include: binned vehicle classification data by axle, speed, length, gap, headway, or Per Vehicle Records (PVR), per lane. Vehicles may be classified according to the FHWA Scheme "F" or a user-defined custom classification scheme.

Water-barrier air switches eliminate the possibility 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.

## Features

- Simple to setup and operate
- 1 MB of available onboard memory
- 2GB or 4GB environmentally rated SD memory module for additional storage.
- Multilane operation
- Up to 42 inputs using a variety of sensor options (loop, piezo, contact closure, WIM, road tube)
- FHWA Scheme "F" or user-defined classification scheme
- Local and/or remote access via front panel, direct serial connection, or MODEM
- U.S. standard or metric units
- Integral keyboard with 4-line LCD readout
- Separate battery compartment
- Solar power options
- Battery "sentinel" for maximizing battery life
- Auto daylight savings time adjustment
- Water-barrier airswitches
- Weatherproof housing

## Specifications

Housing	Rugged, stackable interlocking weatherproof cast aluminum housing and integrally cast carrying handle supplied with brass body lock & two matching keys
Dimensions	6.5"H x 9.5"W x 13"D (162mm x 242mm x 332mm)
Weight	Less than 17.6 pounds (8.0 kg) with battery
Temperature	-40°F to +165°F (-40°C to +74°C)
Display	20 digits x 4 line liquid crystal display
Inputs	2 or 4 water-barrier air switches Up to 42 sensor inputs, plus four water-barrier air switches
Counter rate	Handles 200 counts per second per input
Recording Interval(s)	1, 2, 5, 6, 10, 15, 30 and 60 minutes 2, 3, 6, 12 and 24 hours Four daily Peak periods available
Study period	Preset 24, 48, or 72 hours 7 day, continuous, or daily
Capacity	Approximately 3,280 days of volume data
Accuracy	±1 count, per record, per second input
Autonomy	90 days, indefinite with solar option
Microprocessor	Intel 80C186
Battery	6 volt, 10 amp-hour rechargeable, sealed lead-gel battery protected by an automatic disconnect at 5.7 volts Battery is retained in a separate compartment, sealed from electronics

## Optional Features

The Peek ADR-2000 Plus is a multilane vehicular traffic counter/classifier that configured and upgrade for use in different or changing environments. It can support up to three optional sensor modules, as well as two or four road tube inputs. An environmentally rated SD module is available that provides up to 4GB or additional memory, and has a second compartment that can operate at speeds up to 115,200 bps. Optional setup files can be utilized which help reduce confusion, setup time, and operator errors.

## 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.

Communications	Selectable RS-232 serial baud rates between 300 and 19,200 baud (115,200 baud-optional), via a UL and CSA approved female socket, with up to two ports available
Options	Up to 24 loop inputs, 24 piezo inputs, 48 contact inputs 8 or 16 WIM inputs 2GB or 4GB environmentally rated SD memory module with high-speed serial communication port Solar power Compatible with the AxleLight® laser sensor

## Support Software

Traffic Operations Processing Software (TOPS), a Windows compatible software package, provides the user with the ability to process and format the resultant data retrieved from the ADR. By utilizing a single database, multiple users have access to the data they need from various locations for use in compiling daily, weekly, or monthly reports. TOPS also enables remote or local setup of Peek ADR units, provides multi-file processing, collection of data by direct connection or by automatic telemetry polling of field sites via modem connection (auto polling and Weigh-In-Motion (WIM) support are add-in options), and the ability to customize classification schemes so local requirements are supported. The flexibility to export processed data to other software packages is also available.

The ADR-1000 Plus is also compatible with VIPER, the next generation of Peek data processing and polling software. VIPER is a service-based software package that is modular in design, works with most communication protocols (Serial, IP, IP Stream, Dial-up networking, MODEM), and intended to automate data processing tasks. If the computer restarts for any reason (power loss, system crash, etc), VIPER automatically resumes operations upon computer restart, without any user intervention. Data can be collected either manual or by autopolling, then it is automatically processed into a variety of formats, including TMG, PRN, XML, and XLS, based on user definable criteria. Data and time is also verified and can be automatically synchronized to the polling workstation.



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**About Peek Traffic Corporation** – Peek's heritage goes back over 120 years, covering a broad range of quality turnkey traffic control products and services. Throughout the years, Peek's products have helped to make motorists around the world safer and their travels more pleasant and efficient. This expertise, experience, and breadth of product lines has made Peek one of the most respected and recognized leaders in the traffic control marketplace.

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