

ADR-1000 Plus™

Portable Traffic Counter/Classifier

The Peek ADR-1000 Plus provides ease of use and optimal functionality as a portable counter/classifier. Optional internal sensor modules allow the ADR-1000 Plus to monitor inputs using loops, piezos or contact closures. A removable PCMCIA memory card is also available to further extend storage capability.

With preprogrammed quick setup features, field personnel need only press one or two keys to select recording operation. The type, configuration and format of data to be collected can be custom programmed or selected from menu driven choices.

Available data types include one or more combinations of per-vehicle records, per lane data, binned vehicle classification by axle, speed, length, gap, or headway. 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's weatherproof housing provides a barrier against the elements of nature, helping Peek 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 to provide environmental chamber tested, inspected, high-quality products.

The ADR-1000 Plus is fully compatible with the ADR-2000 and the ADR-3000. The entire range of ADR products operate with the Windows software packages available from Peek.

Features

- Portable traffic counter/classifier
- 2 MB onboard memory
- PCMCIA memory option for additional storage
- Quick set up, easy to use
- Scheme "F" or user-defined classification scheme
- Solar power option
- Water-barrier airswitches
- Weatherproof housing
- U.S. standard or metric units
- Battery "sentinel"
- Multiple studies
- Auto daylight savings time



Specifications

Characteristic	Description
Housing.....	Rugged, stackable interlocking weatherproof cast aluminum housing and integrally cast carrying handle supplied with brass body lock, two matching keys
Weight.....	Less than 14.8 pounds (6.7 kg) with battery
Size.....	5.25" H x 8.5" W x 10.5" D (135mm x 215mm x 270mm)
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
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
Communications.....	Selectable RS-232 serial baud rates between 300 and 19,200 baud via UL and CSA approved female socket
Options.....	- Up to 8 loop inputs, 8 piezo inputs, 8 WIM inputs, or 14 contact inputs - 4 piezos on motherboard - PCMCIA memory card socket - Solar power option

Operational Characteristics

The Peek ADR-1000 Plus is a self-contained, portable automatic vehicular traffic counter/classifier that can be set up and operated via the integral smart keypad and interactive display. Alternatively, full operational control can be granted either remotely or directly in the field via a computer with appropriate software or a hand-held data collector.

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.

Physical Description

The Peek ADR-1000 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-1000 Plus is expandable by function with individual plug-in modules. Compact, individual plug-in sensor modules use 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, which is equipped with a battery sentinel to extend battery life by preventing deep discharging. Power options include a lid mounted integral solar power and a battery charger. An independently supported hardware real-time clock keeps time and date, regardless of unit power, for up to ten years. This clock can be set to automatically adjust for Daylight Savings Time.

Peek ADR-1000 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 ADR-1000 Plus. This software is the Traffic Operations Processing Software (TOPS) program, which is available from Peek.

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 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 ADR-1000 Plus. Processed data may be exported to various other software packages.

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.

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. 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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