

ADR 2000 Plus

Portable Traffic Counter/Classifier



The Peek 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. Peek Traffic'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 Peek Traffic 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

- 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 airswitches
- Weatherproof housing
- Integral keyboard with 4-line LCD readout
- Separate battery compartment
- Battery "sentinel"
- Auto daylight savings time
- Compatible with the AxleLight® laser sensor

Optional Features

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. Collected data is held onboard, 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.

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.

Specifications

Housing	Rugged, stackable interlocking weather proof cast aluminum housing and integrally cast carrying handle supplied with brass body lock, two matching keys	Study period	Preset 24, 48, or 72 hours, 7 days or continuous
Weight	Less than 17.6 pounds (8.0 kg) with battery	Microprocessor	Intel 80C186
Size	6.5"H x 9.5"W x 13"D (162mm x 242mm x 332mm)	Capacity	Approximately 3,280 days of volume data
Temperature	-40°F to +165°F (-40°C to +74°C)	Accuracy	±1 count, per record, per second input
Display	20 digits x 4 line liquid crystal display	Battery	6 volt 12 amp-hour rechargeable, sealed lead-gel battery protected by an automatic disconnect at 5.7 volts*
Inputs	Up to 42 sensor inputs, plus four water barrier air switches	Communications	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.
Counter rate	Handles 200 counts per second per input	Options	Up to 24 loop inputs, 24 piezo inputs, 48 contact inputs 24 WIM inputs SD memory card socket Solar power option
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		

Support 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-2000 Plus. This software is the Traffic Operations Processing Software (TOPS) program 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 ADR 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 polling of field sites via modem (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-2000 Plus. Processed data may be exported to various other software packages.

Physical Description

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 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.



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