ADR-3000 PLUS™
TRAFFIC COUNTER/CLASSIFIER

DATA COLLECTION

The Peek ADR-3000 Plus provides optimal functionality as a permanent site unit. The basic unit provides a CPU module, a Power Management Unit (PMU) with a battery, an eight-input piezo sensor module, an eight-input loop sensor module, and a communications port with full 19,200 baud telemetry facilities. With the various options, the ADR-3000 Plus can count up to 64, or classify up to 32 lanes of traffic, including up to 24 WIM sensor inputs.

Several exclusive features have been incorporated into the ADR-3000 Plus. The CPU electronics are fitted with a replaceable socket mounted fuse, protecting against an accidental power reversal, and subsequent damage. Front panel mounted LED's indicate a successful start up of the microprocessor by blinking twice during the boot cycle. LEDs also warn of system fault conditions and indicate the communications port activity and status. Additionally, a reset switch that is mounted on the front panel of the ADR-3000 Plus can be used to re-start the CPU. This provides an easy method of restarting a unit during diagnostics, similar to cycling power off and on.

Each unit can perform up to eight studies, plus generate per-vehicle records, with up to 356 bins of data. This could include, for example, classification by speed, by lane, and volume. The type, configuration, and format of data to be collected can be custom programmed or selected from menu-driven choices. Available data types include per-vehicle records, per-lane data, binned vehicle classification by axle, speed, length, gap, or headway, or almost any combination of these classifications. Vehicles can also be classified according to either a Scheme "F" or a user-defined classification scheme.

19" Unit

FEATURES

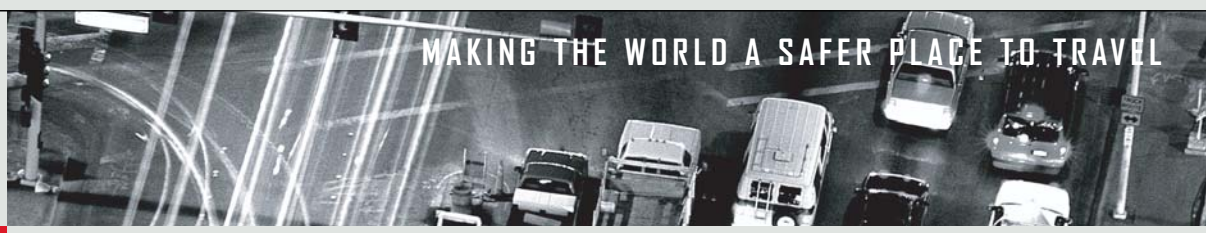
- Permanent rack mounted traffic counter/classifier/WIM.
- Simple to set up and operate.
- 2 MB onboard memory.
- Multilane operation.
- PCMCIA memory option - for additional storage.
- Up to 64 inputs with a variety of sensor options.
- Scheme "F" or user-defined classification scheme.
- High-speed communications and telemetry.
- U.S. standard or metric units.
- Optional integrated control panel with LCD readout.
- Solar power options.
- Battery "sentinel".
- Auto daylight savings time.

OPERATIONAL CHARACTERISTICS

The Peek ADR-3000 Plus is a modular multilane vehicular traffic counter/classifier that can be set up and operated either remotely via telemetry or directly in the field via a computer with appropriate software. The optional front panel mounted keypad and display provides autonomous local control. Setup and operational performance of the Peek ADR- 3000 Plus is enhanced for simple and reliable field traffic data collection. Easy to use menus allow configuration flexibility. Optional setup files are available which help 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 TS2 standards. All input circuits have been designed and tested to the NEMA TS2 standards for surge (lightning) protection.



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PHYSICAL DESCRIPTION

The Peek ADR-3000 Plus is an instrument rack-based unit, expandable by function with individual plug-in modules. Available to fit standard EIA 19" or Type 170 enclosures, the Peek ADR-3000 Plus may also be shelf or panel mounted. Electrical connections (external) are via rear mounted terminal strips for sensor inputs. Communications are supported via an RS232-C DB-9 connector. Plug-in modules can consist of power supply, central processing unit, communications, control panel, memory, loop sensors, piezo sensors, contact closure inputs, analog to digital inputs or a combination of these for a particular application. Individual plug-in modules are Eurocard in size with DIN standard connectors. Typical module width is 1 inch.

Power options include 115 VAC, 6 or 12 VDC, solar power and operational battery-backup as necessary. An internally supported hardware real time clock maintains time and date, regardless of unit power, for up to ten years.

PEEK ADR-3000 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-3000 Plus. This software is the Traffic Operations Processing Software (TOPS) program, which is available from Peek Traffic.

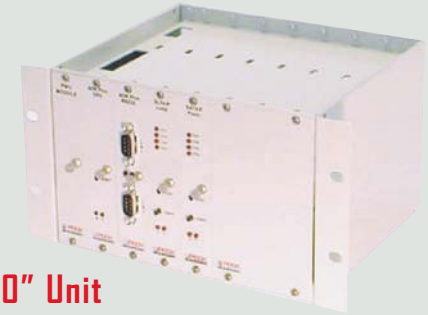
The TOPS program provides multi-file processing, stores data files into a single database for easy file sharing among TOPS users, allows for edit and preview of reports before printing, provides for both ADR and 241 data processing protocols, enables remote or local setup of Peek ADR units and collection 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-3000 Plus. Processed data may be exported to various other software packages.

TWO YEAR LIMITED WARRANTY

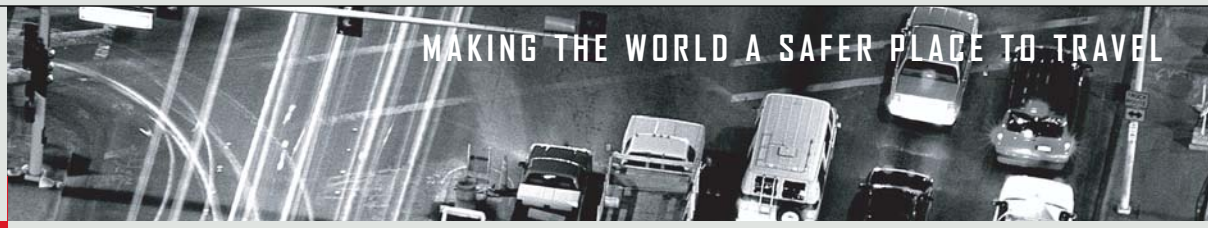
Peek Traffic warrants this product against manufacturing defects in materials and workmanship for two years from date of shipment from Peek Traffic. Specific contracts and regional laws may vary or alter these terms.

SPECIFICATIONS

Characteristic	Description
Dimensions	5.25"H x 10" to 19"W x 9.35"D (135mm x 255-480mm x 240mm)
Weight	Less than 15 pounds (<6.8kg).
Temperature	-40°F to +165°F (-40°C to +74°C) T
Display (optional)	20 digits x 4 line LCD.
Inputs	24 sensor inputs of various types allowed, optionally up to 64.
Count rate	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. ▸ Four daily peak periods available.
Microprocessor	Intel 80C186
Capacity	Approx. 3,280 days of volume data.
Accuracy	±1 count per record per sensed input.
Communications	Selectable RS232 serial baud rates between 300 and 19,200 (115200 baud-optional) via UL and CSA approved female socket, with up to 5 ports available.
Options	▸ Solar power. ▸ Front panel keypad and display. ▸ Up to 8 sensor input modules, or 64 inputs, which can be a combination of loop, piezo, or contact closure inputs.



10" Unit



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Please contact Peek Traffic 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.