



Sustainable Solutions for Traffic Technologies



ADR-3000 Plus Traffic Counter/Classifier

The Peek ADR-3000 Plus is the permanent site traffic counter and vehicle classifier in the industry standard Peek ADR Plus product family. Using its wealth of configuration options, the ADR-3000 Plus can count up to 64 bi-directional lanes, or classify up to 32 bi-directional lanes of traffic, including up to 24 WIM sensor inputs.

Overview

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, weigh-in-motion 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.

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 LEDs 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 front panel mounted reset switch can be used to re-start the CPU, providing an easy method of restarting the unit during diagnostics, similar to cycling power.

Each unit can perform up to eight simultaneous studies, plus it can generate Per Vehicle Records (PVR), having 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 by axle, speed, length, gap, headway, or per-vehicle records, per-lane data, or almost any combination of these classifications. Vehicles can also be classified according to either the default FHWA Scheme "F" or a user-defined classification scheme. Collected data is held onboard, secure from unintentional erasure or loss. The ADR-3000 Plus can be set up and operated either remotely via telemetry or directly in the field via a computer with appropriate software, including updates of the unit's firmware. Quality control is based on ISO9000 standards of operation, enabling Peek Traffic to provide environmental chamber tested, inspected, high-quality products. 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

Dimensions	5.25"H x (10" or 19") W x 9.35"D (135mm x (255-480)mm x 240mm)
Weight	Less than 15 pounds (6.8 kg)
Temperature	-40°F to +165°F (-40°C to +74°C)
Display	20 digits x 4 line liquid crystal display
Inputs	24 sensor inputs of various types allowed, optionally up to 64
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

Features

- Permanent rack mounted traffic counter/classifier/WIM
- Simple to set up and operate
- 1 MB of available onboard memory
- 2GB or 4GB environmentally rated SD memory module for additional storage.
- Multilane operation
- Up to 64 inputs using a variety of sensor options (loop, piezo, contact closure, WIM)
- FHWA Scheme "F" or user-defined classification scheme
- High-speed communications and telemetry for local and/or remote access
- U.S. standard or metric units
- Optional integrated control panel with LCD readout
- Solar power options
- Battery "sentinel" for maximizing battery life
- Auto daylight savings time adjustment
- User definable alarm outputs

Optional Features

The Peek ADR-3000 Plus is a multilane vehicular traffic counter/classifier that configured and upgrade for use in different or changing environments. An optional front panel mounted keypad and display is available that provides local control of unit features and functions.

The Peek ADR-3000 Plus can support a variety of optional sensor modules and communication options. An environmentally rated SD module is available that provides up to 4GB or additional memory. Optional setup files can be utilized which help reduce confusion, setup time, and operator errors. Optional setup files can be utilized which help reduce confusion, setup time, and operator errors.

Capacity	Approximately 3,280 days of volume data
Accuracy	±1 count, per record, per monitored input
Microprocessor	Intel 80C186
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 three ports available
Options	Up to 8 sensor input modules, or 64 individual inputs, that can be a combination of loop, piezo, or contact closure inputs Front panel keypad and display 2GB or 4GB environmentally rated SD memory Solar power option 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-3000 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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