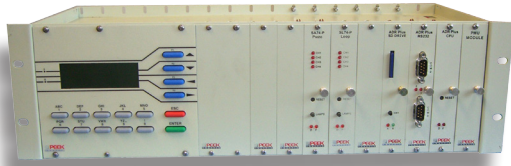


# ADR 3000 Plus

## Traffic Counter/Classifier



The Peek ADR-3000 Plus is a high performance traffic counter and classifier designed for permanent installation. 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. Front panel mounted LED's indicate a successful start up of the microprocessor. LEDs also warn of system fault conditions and indicate the communications port activity and status. Additionally, a reset switch mounted on the front panel of the ADR-3000 Plus providing an easy method of restarting a unit during diagnostics, similar to cycling power.

Each unit can perform up to eight studies, plus generate per-vehicle records, with up to 4096 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.

### 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.

### Features

- Simple to set up and operate
- 2 MB onboard memory (1 MB accessible)
- Multilane operation
- SD 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 timer

### Optional Features

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 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.

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.

### 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

<b>Dimensions</b>	5.25"H x (10" or 19") W x 9.35"D (135mm x (255-480)mm x 240mm)
<b>Weight</b>	Less than 15 pounds (6.8 kg)
<b>Temperature</b>	-40°F to +165°F (-40°C to +74°C)
<b>Display</b>	20 digits x 4 line liquid crystal display
<b>Inputs</b>	24 sensor inputs of various types allowed, optionally up to 64
<b>Counter rate</b>	Handles 200 counts, per second, per input
<b>Interval</b>	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
<b>Microprocessor</b>	Intel 80C186
<b>Capacity</b>	Approximately 3,280 days of volume data

**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, depending on actual configuration, that can be a combination of loop, piezo, WIM or contact closure inputs

Front panel keypad and display

SD memory card socket

Solar power option

Compatible with the AxleLight® laser sensor

# Support Software

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 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 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.



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