ADR 1000 Plus Portable Data Recorder

Overview

Available data types include one or more combinations of per-vehicle records, per lane data, binned vehicle classification (by axle), speed, length, gap, headway and volume. Vehicles may be classified according to the FHWA Scheme "F" or a user-defined custom classification scheme.

Water-barrier air switches eliminate the possibility of internal water ingress from failed road tubes. Peek Traffic's weatherproof housing provides a barrier against the elements of nature, helping Peek Traffic 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 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.

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

The Peek ADR-1000 Plus provides ease-of-use and optimal functionality as a portable counter/classifier. Optional internal sensor modules provide the ADR-1000 Plus the flexibility to monitor inputs using loops, piezos, WIM or contact closures in Single Lane or Multi-Lane environments. A PCMCIA memory card or an SD card slot can also be added to further extend the portable data storage capabilities of the ADR-1000 Plus.

- Portable traffic counter/classifier.
- Quick set up, easy to use
- 1 MB of available onboard memory
- PCMCIA memory option for additional storage
- Multilane operation
- Supports a variety of sensor options (loop, piezo, Contact closure, WIM, road tubes)
- FHWA Scheme "F" or user-defined classification scheme
- Local and/or remote access via front panel, direct s Serial connection or MODEM
- U.S. standard or metric units
- Integral keyboard with 4-line LCD readout
- Solar power options
- Battery "sentinel" for maximizing battery life
- Auto daylight savings time adjustment
- Water-barrier air switches
- Weatherproof housing
- Compatible with the AxleLight® laser sensor

Optional Features

The Peek ADR-1000 Plus is a multilane vehicular traffic counter/classifier that IS configured for use in different or changing environments. It can support two or four road tube inputs, and can have up to one additional sensor module (loop, piezo, WIM, contact closure). A PCMCIA memory module is available that provides additional memory and storage space. Optional setup files can be utilized which help reduce confusion, setup time, and operator errors.

Specifications

Housing	Rugged, stackable interlocking weatherproof cast aluminum housing and integrally cast carrying handle supplied with brass body lock & two matching keys
Dimensions	5.25"H x 8.5"W x 10.5"D (135mm x 215mm x 270mm)
Weight	Less than 14.8 pounds (6.7 kg) with battery
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 Up to one additional sensor module (loop, piezo, contact closure, or WIM)
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
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 5.7 volts
Microprocessor	Intel 80C186
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 closure inputs PCMCIA memory card socket Solar power Compatible with the AxleLight® laser sensor

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.

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-1000 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. Date and time is also verified and can be automatically synchronized to the polling workstation.

PEEK

2906 Corporate Way
Palmetto, FL 34221
(941) 845-1200
(800) 245-7660
www.peektraffic.com

Peek Traffic Corporation, a Signal Group Company
ADR1000-Plus