



AVC 100

Automatic Vehicle Classification for Traffic Measurement Networks

We make highways talk™

- MANAGEMENT
- SAFETY
- PRESERVATION

International Road Dynamics Inc. develops and maintains traffic management products and systems technology that make highways talk. What are they saying? They are providing information that roadway administrators need to manage traffic, preserve infrastructure and provide safety warnings to drivers.

IRD's multi-discipline, innovative and customer-focused team is expert in advanced technologies, advanced traffic solutions and custom-designed systems.

The AVC 100 is a modular traffic flow measurement and vehicle counting and classification system for collection, analysis, storage and transmission of traffic data.

AVC 100 - AUTOMATIC VEHICLE CLASSIFIER

- Counting and Classification of vehicles
- Speed classification separately for trucks and cars
- Vehicle length classification
- Gap classification in metres or seconds
- Occupancy
- Speed and traffic flow analysis for incident warning (Option)

ROADSIDE PROCESSOR SYSTEM

- Modular 19" rack system with 8 or 16 bit CPU boards
- Various interface boards and measurement data collection boards for the signal acquisition of induction loops, piezo axle sensors, microwave sensors and environmental sensors
- Recording of traffic measurement data up to 12 lanes
- Various data memories for storage of the traffic measurement data
- Integrated power supply, adaptable to different power sources
- Network capability
- Modular terminal construction with integrated overvoltage protection
- Robust system design, large temperature range
- CE certificate, quality control according to ISO 9001
- Different hard- and software versions, i.e. according to TLS- Specification (BAST, Federal German Highway Authority)
- With optional upgrade, system can be extended to WIM



APPLICATIONS

- Data Collection with preprocessing of information (traffic statistic)
- Traffic flow measurement
- Automatic incident detection
- Traffic jam warning systems
- Overspeed control and warning systems
- Tunnel control and information systems
- Vehicle type control system for toll stations

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AVC 100

TECHNICAL DATA

Power supply:

230 V AC (110 V AC opt.) 12 V DC,
int. accumulator 12 V / 2.2 Ah

Operating temp.:

-40°C to +70°C (-40°F to 158°F) (10 to 95% Humidity)

Speed range:

1 to 250 km/h

Interfaces:

1x RS 232 standard

1x RS 232 / RS 422 / RS 485 alternatively
relay outputs, digital inputs (opt.)

Number of conectable sensors:

depending on configuration

STANDARD 8+1 (for induction loops)			(TLI) Code
Code	Vehicle Type	Description	
1		CARS	7
2		SMALL TRUCKS	11
3		CARS WITH TRLR	2
4		TRUCKS	3
5		TRUCKS WITH TRLR	8
6		TRACTOR WITH SEMI TRLR	9
7		BUS	5
8		MOTORCYCLES	10
9		OTHERS	6

USA FHWA 15 (with axle detection)			
Code	Vehicle Type	Code	Vehicle Type
1		9	
2		10	
3		11	
4		13	
5			
6			
7		14	
8		15	UNCLASSIFIED

REDUCED EUROPEAN (with axle detection)			
Code	Vehicle Type	Description	No. of Axles
1		MOTORCYCLES	2
2		ALL CARS	2
		CARS W/1-AXLE TRLR	3
3		PICK-UPS & VANS	2,3&4
		1 & 2 Axle TRLR	
4		BUS	2 & 3
5		2-AXLE, SINGLE UNIT	2
6		3-AXLE, SINGLE UNIT	3
7		4-AXLE, SINGLE UNIT	4
8		2-AXLE TRACTOR	3
		1-AXLE TRLR (2S1)	
		2-AXLE TRACTOR	4
9		2-AXLE TRLR (2S2)	4
		3-AXLE TRACTOR	4
		1-AXLE TRLR (3S1)	
10		3-AXLE TRACTOR	5
		2-AXLE TRLR (3S2)	
11		3-AXLE TRACTOR	5
		W/2-AXLE TRLR	
12		TRACTOR W/SINGLE TRLR	6 & 7
13		5-AXLE MULTI-TRLR	5
14		6-AXLE MULTI-TRLR	6
15	any 7 or more axles		7 or more
16	option		
17	not classified		



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