

# AV420

## SPECIFICATIONS

### MULTI-PURPOSE MESSAGING DEVICE

GPRS . CDMA . HSPA

The AV420 is a location messaging unit. It can monitor a variety of different assets. This allows you to lower the cost of delivering, growing and supporting the management of your fleet.



### KEY BENEFITS

- > Monitor up to 7 digital sensors
- > Plugs into engine diagnostic ports
- > Control up to 5 switches
- > Attach to temperature sensor
- > Can be used on any cellular network in North America
- > Reliable messaging

### KEY FEATURES

- > Sensitive GPS low-power mode
- > Advanced driver behaviour monitoring
- > Over-the-air configurable
- > Supports 20,000 buffered messages
- > Expansion options available
- > Multiple antenna options
- > Voltage monitoring and low-battery notification

### MONITORING INTELLIGENCE

Each unit is embedded with an on-board alert engine which monitors and reacts to vehicle conditions based on pre-determined rules or thresholds.

- > Aggressive braking and acceleration reporting capabilities
- > Driver ID with 1-Wire® protocol and IButton
- > Garmin Interface
- > Temperature sensing via 1-Wire® protocol

### WARRANTY

- > One (1) year parts and labor
- > Extended warranty also available

AUTOVISION WIRELESS CUSTOMER SUPPORT 866.514.8030 [gpssupport@autovisionwireless.com](mailto:gpssupport@autovisionwireless.com)

Offices in Toronto, Edmonton, Ottawa, Hamilton, Colorado Springs, and St. Louis [autovisionwireless.com](http://autovisionwireless.com)

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WIRELESS

## GENERAL SPECIFICATIONS

Location Accuracy

- > 2.0 m

Location Technology

- > 50 channel GPS

Communication Modes

- > Supports GPRS, CDMA or HSPA

## ENVIRONMENTAL SPECIFICATIONS

Operating Temperature

- > -30° to 70° C

Storage Temperature

- > -40° to 85° C

Humidity

- > 95% RH @ 50° C non-condensing

Shock and Vibration

- > U.S. Military Standards 202G and 810G, SAE J1455

EMC/EMI

SAE J1113

## CONNECTORS

Cellular Antenna

GPS Antenna

4 Pin Molex (power, ignition, I/O)

16 Pin Molex (expansion port)

22 Pin Molex (I/O Connection)

## COMPREHENSIVE I/O

7 Inputs High/Low Selectable  
Inputs 0–30 VDC

5 Relay Driver Output (150 mA)

2, 20 mA current limited outputs

2 Programmable Inputs

1-Wire Bus IButton for  
Temperature Sensors

2 Built-In LEDs for Cellular and  
GPS Status

2 Serial Ports

## PHYSICAL SPECIFICATIONS

Dimensions

- > 4.8" L X 3.3" W X 0.85" H

Weight

- > 11 oz.

## ELECTRICAL SPECIFICATIONS

Power Source

- > 6–32 VDC Power

Power Consumption

- > 20 mA (sleep)

- > 70 mA (active)

## PERIPHERAL DEVICE SUPPORT (WITH ADD-ON ADAPTERS)

User Data (smart/dumb terminals,  
data collection, device control,  
barcode readers, RFID)

Engine Diagnostics (JBus)

NMEA GPS Output  
(in-vehicle mapping)

IButton for Driver ID

Garmin Interface

## MOUNTING

Tie-Wrap or Screw Mount

Mounting Strip

## OPTIONAL ACCESSORIES

Serial Adapter Cable

JPOD Truck ECU Interface Adapter

## RELIABLE MESSAGING

The AV420 logs up to 20,000  
locations and alerts when a vehicle  
is outside of network coverage.  
That's almost 3 weeks worth of data.