BECKER AVIONICS

BAV6215

ADS-B Unit for Ground Vehicles

Overview

Airport ground traffic management made easy thanks to self-contained ADS-B squitter devices, providing valuable position and identification information to all concerned parties.
Available in stationary, semi-stationary and battery-powered mobile versions for optimal installation flexibility.
The BAV6215 is a compact and fully autonomous low power ADS-B transponder for airport vehicles.
The device periodically reports the position and speed of the vehicle, thus providing valuable information for airport ground traffic management.

The BAV6215 can be easily positioned on the vehicle's roof with magnets, or it can be permanently installed in the vehicle. Maintenance and configuration is done via USB interface.
The BAV6215 includes a GPS receiver which provides position and velocity data processed and transmitted according to DO-260B standards at 1090 MHz. This makes the vehicle visible to ground stations and to aircraft equipped with 1090 MHz ADS-B receivers. In addition to position, speed and heading data, each BAV6215 also reports its identification code, thus allowing easy recognition.

Features

- Light weight and contained installation footprint
- Robust design for outdoor operations
- Quick and easy configuration via USB interface
- Powered via the vehicle's power network or via the internal battery
- Various mounting options
  - Positioned inside the vehicle or on the roof (magnet)
- Available with installation accessories as complete sets
- Easy identification by unique identity code
- Transmission in accordance with DO-260 standards at 1090 MHz

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Technical Data

BAV6215	Specification
Supply voltage	10...32.2 VDC
Current comsumption	max. 0.2 A@12 V
Operating temperature	BAV6215-(20): -40...+70°C BAV6215-(21): -20...+70°C BAV6215-(30): -40...+70°C
Storage temperature	-55...+85°C
Dimensions	BAV6215-(20): ca. 244 x 121 x 112 mm BAV6215-(21): ca. 244 x 121 x 112 mm BAV6215-(30): ca. 230 x 161 x 47 mm
Weight	BAV6215-(20): ≤ 625 g BAV6215-(21): ≤ 800 g BAV6215-(30): ≤ 600 g
ADS-B messages	
Message format	DF=18 (non-transponder)
Code format	CF=1
Address	24-bit non-ICAO address
Messages	Surface Position, Identification
Average transmission Period	Surface Position: 0.5 s when moving, 5 s when stationary Identification: up to 8 letters/digits
Transmitter	
Power	≥ 10 W
Frequency	1090 ± 1 MHz
GPS receiver	
Type	L1 Frequency, C/A Code, SBAS
Number of channels	50
Signal detection	40 s (typical value, good sky view)

BAV6215-(20) / BAV6215-(21)

BAV6215-(30) car installation

Becker Avionics GmbH, Germany
info@becker-avionics.com

Becker Avionics, Inc., USA
info@beckerusa.com

www.becker-avionics.com