

Vaisala Vehicle Antenna CG32



The Vaisala Vehicle Antenna Set CG32 has been designed for operation on all kinds of vehicles. It can be used with GPS wind-finding systems out in the field. The antenna set includes a UHF antenna with an amplifier and spring base with a built-in GPS antenna. The spring base is attached to a vehicle-wall mounting plate – mast mounting is also possible.

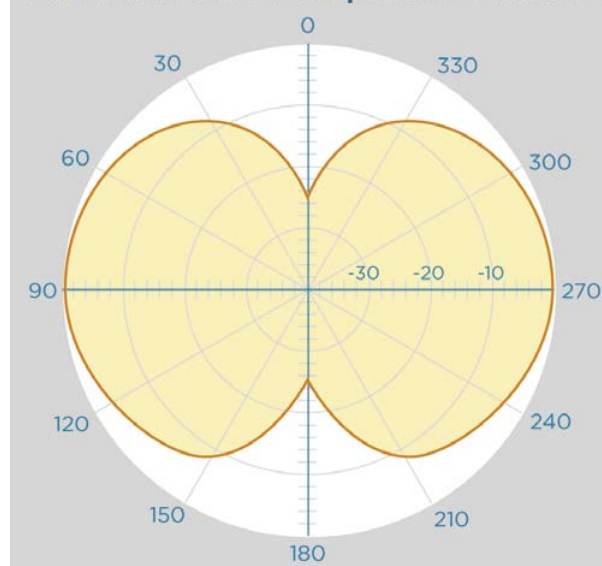
The antenna set is painted green as standard. The UHF antenna element is completely enclosed in epoxy/fiberglass laminate. Metal parts are made from stainless steel, brass and aluminum.

The CG32 receives radiosonde signals in 400 MHz meteorological UHF band.

Benefits

- Fixed to the vehicle - no need to erect and dismantle a tripod
- Rugged and durable
- Long telemetry range - 150 km using the RS92-SGP radiosonde

UHF antenna radiation pattern - Elevation



Vaisala vehicle antenna CG32 can be mounted on a vehicle-wall or mast.

Technical data

UHF Antenna

Type	Centered dipole
Frequency range	400 ... 406 MHz
Gain	2 dBi
Polarization	Vertical
Horizontal pattern	Omnidirectional

Telemetry range

With RS92-SGP radiosonde	150 km
--------------------------	--------

Amplifier

Gain	20 dB typical
Noise figure	<2 dB
Power input	+10 ... 12 VDC, typically 130 mA through RF cable
Output impedance	50 ohms, VSWR <1.5

GPS Antenna

Primary power	2.7 - 5.5 volts DC
Current consumption	< 40 mA
Frequency	L1: 1575.42 ±10 MHz
Gain	26.5 dB (preamplifier)
Noise figure	2.5 dB (nominal)

Mechanics

Connector	
UHF Antenna	Coaxial N-type female
GPS Antenna	Coaxial TNC-type female
Total height	1048 mm
Weight	
With cables	6.6 kg
Standard cable length	6 m

Environmental conditions

Operating temperature range	-40 ... +55 °C
Operation humidity range	0 ... 100 %RH
Operating precipitation	Unlimited
Maximum wind speed	65 m/s
Storage temperature	-50 ... +71 °C
Storage humidity	0 ... 100 %RH



VAISALA

For more information, visit
www.vaisala.com or contact
us at sales@vaisala.com

Ref. B210986EN-A ©Vaisala 2010

This material is subject to copyright protection, with all copyrights retained by Vaisala and its individual partners. All rights reserved. Any logos and/or product names are trademarks of Vaisala or its individual partners. The reproduction, transfer, distribution or storage of information contained in this brochure in any form without the prior written consent of Vaisala is strictly prohibited. All specifications — technical included — are subject to change without notice.

