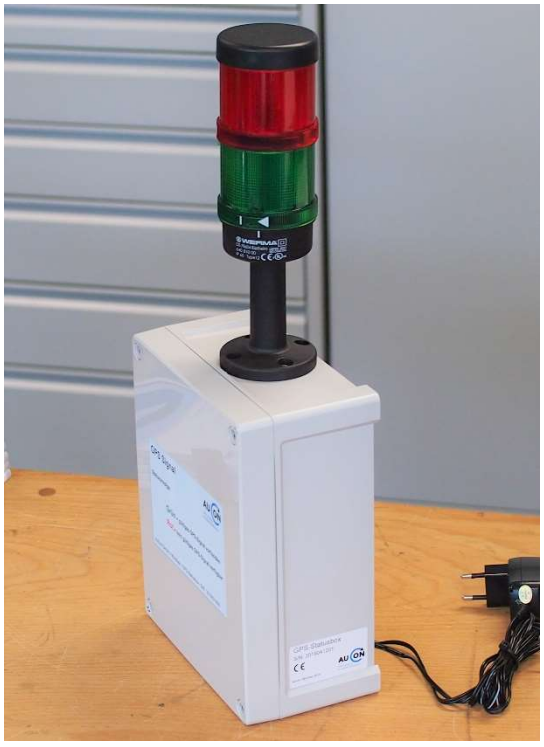
GNSS Status Box / Jamming / Spoofing Detection

Art.-No.: 9599190

Features:

- Security by displaying the current GPS status with defined quality (DOP)
- GPS signal analyser can be used nearly everywhere, also indoor with GPS repeaters
- Ideal for use in a harsh environment
- Visualisation by a RED-GREEN Light
- For connection to 230 V AC power socket
- Numerous industry specific options, for ECALL or aircraft checks
- Jamming and Spoofing Detection for civil and miltary applications



Description:

The AuCon GPS Status Box is perfectly suitable when it comes to the visualization of the current GPS status. Especially in harsh industrial environments such as on vehicle test stands or hangars, this unit is perfect for showing the examiner whether a valid GPS signal (L1) is available. The prerequisite for indoor reception of GPS signals is the operation of a GPS repeater.

The signal quality is analyzed via the integrated GPS receiver with a logic controller. This will show you with the help of the green light whether you receive at least 4 or 6 valid satellite signals in a good quality (DOP – Dilution of precision) on the GPS L1 frequency.

The system can also be customized with a lot of options for signal analysis on GPS, Galileo, Glonass or Beidou. Depending on the requirement for ground, air or marine applications further quality values could be integrated like GDOP, PDOP or C/N.

For use in difficult or military environments also other options for jamming and spoofing are available. Details on inquiry. EUS (End-User-Statement) required.

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PROPERTIES

> GNSS frequency	GPS L1 (1575,42 MHz)
> Receiver sensivity	- 160 dBm (Tracking) bis -130 dBm (Cold start) ublox M8
> Controller	Arduino professional
> Interface	USB, I2C
> Circuit signal light	electronic relais
> AC Input	230 V power supply
> DC output	12 V for signal light (Werma)
> Current draw	appr. 1,5 A @ 12 V

MECHANICAL PROPERTIES

> Operating temperature	-10 to 60°C
> Dimensions	240 x 190 x 110 mm (Box) 240 x 70 mm (dia) (light)
> Weight	1150 g including power supply
> Mounting	Screwholes on the backside
> Housing	ABS plastics, grey, IP65

SHIPMENT

> GPS status box in gray housing with pre-installed traffic light
> Power supply 230 V AC / 5 V DC and 230 V AC / 12 V DC
> Manual

Abb: The GPS-handheld is not scope of the delivery

In the standard configuration, the green lamp lights up as soon as at least 4 / 6 satellites of the GPS L1 band with a good HDOP (horizontal dilution of precision) is available. The red lamp lights up as soon as sufficient GPS reception is not guaranteed anymore.

ORDER INSTRUCTIONS

For more information and prices as well as availability please contact vertrieb@aucon.de.

Gerne stehen wir Ihnen auch telefonisch unter +49-89- 9901638-0 zur Verfügung!

Excerpt of options:

for aircraft with RAIM (at least 6 Sat for green status)

with external GPS antenna and 30 m coaxial cable

with remote control by webinterface

in a waterproof housing

with PDOP or HDOP or C/No, CEP, Geofencing

with integration of Glonass or Galileo signals

NOTES

For use with a GPS repeater the status box must be positioned in sight to the transmitter. In addition, the distance of the GNSS Status Box to the repeater should correspond to the distance to the DUT (Device Under Test, aircraft, car etc.).

For applications to approve the GNSS environment outside of buildings, the external GNSS antenna of the status box needs to be installed under the open sky. For example, at small airports without GBAS there is a cost effective ability to detect any disruptions of the GPS signal at an early stage.

The system can also be combined with a spectral signal analysis and built into a network.

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