



GNSS Status Box for signal analysis

Art.-No.: 9599190-D

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 and an integrated LCD display
- For connection to 230 V AC power socket
- Numerous industry specific options, for ECALL or aircraft checks
- Jamming and Spoofing Detection for civil and military 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. The lights combined with the LCD display show you in which quality the gnss signals are received. Time, Date, coordinates, HDOP and received satellites are the defined default values.



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 sensitivity | - 160 dBm (Tracking) bis -130 dBm (Cold start) ublox M8 |
| > Controller | Arduino professional |
| > Interface | USB, I2C |
| > Circuit signal light | electronic relais |
| > Display | LCD blue with 4 lines |
| > 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)
100 x 40 mm (Display)
240 x 70 mm (dia) (light) |
| > Weight | 1200 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

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!

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.



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

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