

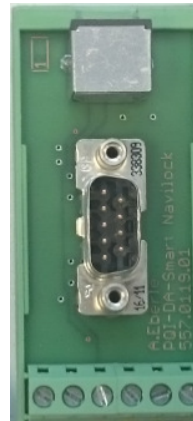
GPS Receiver set 111.7083

Navilock NL-8004P **111.7081.01**

Converterboard **111.9024.62**

For PQI-DA Smart

▶ as DIN-Rail mounting system



1. Data of the GPS Receiver Navilock NL-8004P 111.7081.01

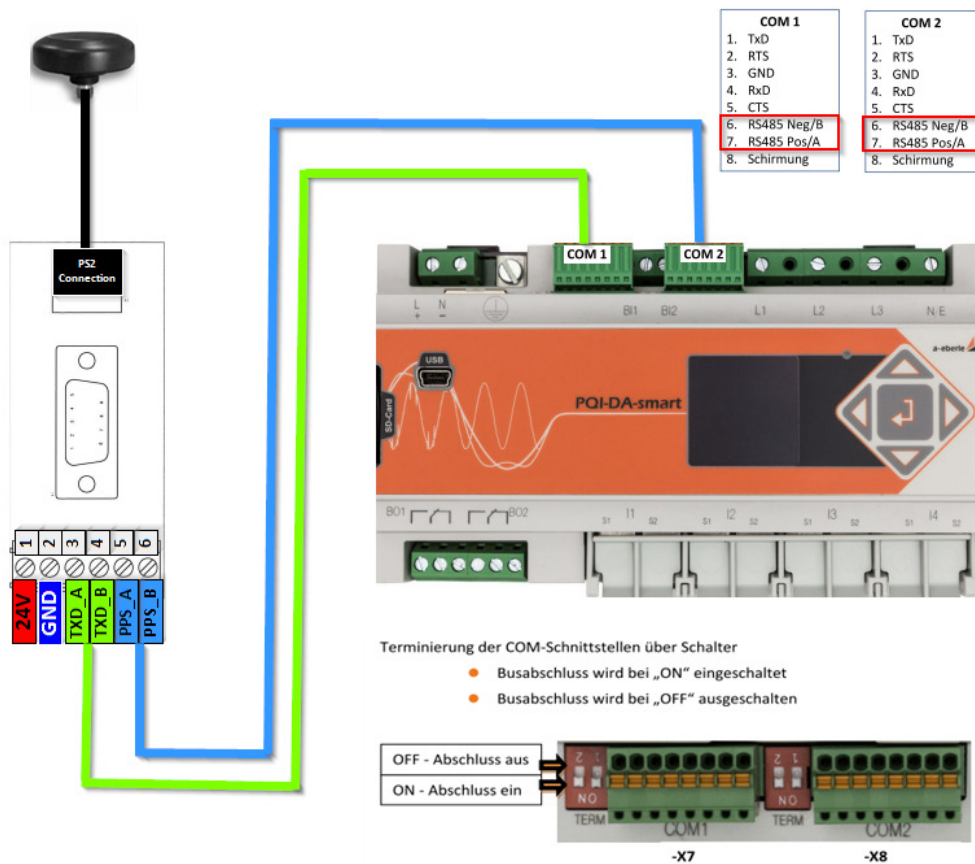
1.1

- Connector:
MD6 Navilock plug (USB or serial cable are optional available)
- u-blox 8 UBX-M8030-KT chipset
- Frequency:
GPS: L1, 1575.4200 MHz
GLONASS: L1, 1602.5625 ~ 1615.5000 MHz
BEIDOU COMPASS: B1, 1561.0980 MHz
GALILEO E1, 1575.4200 MHz
QZSS L1, 1575.4200 MHz
- Accepts the signals of up to 72 satellites at the same time
- Supports AssistNow online/offline, SBAS (WAAS, EGNOS, QZSS and MSAS)
- Supports NMEA 0183 protocols: GGA, GSA, GSV, RMC, VTG
- Auto Baud Rate up to 115200 bps
- PPS signal on pin 6
- Update rate:
single GNSS: 18 Hz (e.g. GPS solo)
multi GNSS: 10 Hz (e.g. GPS+GLONASS)
- Sensibility max. -167 dBm
- IPX7 protection class
- Operating temperature: -20 °C ~ 60 °C
- Power supply: 5 Volt
- Current consumption: max. 45 mA
- Cold start in ca. 26 seconds
- Hot start in ca. 1 second
- Positioning accuracy: 2.5 m CEP (Circular Error Probable) and 2 m CEP with SBAS
- Cable length: ca. 5 m
- Dimensions (∅ x H without screw thread): ca. 62 mm x 21 mm

2. Data of the Converterboard 111.9024.62

2.1

- The Converterboard 111.7081.01 route the PPS signal to the clamps (5-6) and convert the NMEA output signal from the GPS receiver to RS485 level - clamp (3-4). With this two output signals from the board it is possible to synchronize up to 32 devices by an overall Bus length up to 1200 meter.



GPS Converterboard 111.9024.62	PQI-DA Smart
Clamp 3 – TXD_A	COM1 – Clamp 7
Clamp 4 – TXD_B	COM1 – Clamp 6
Clamp 5 – PPS_A	COM2 – Clamp 7
Clamp 6 – PPS_B	COM2 – Clamp 6

Time synchronization protocol (transceiver / Master)

- GPS (NMEA +PPS)

Interfaces:

2 * RS485 on clamps	clamp 3/4 & 5/6
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Electrical safety

- IEC 61010-1
- IEC 61010-2-030

Protection class	2
Verschmutzungsgrad	2
Altitude	≤ 2000m
IP Schutzklasse	IP20 (Converterboard) IPX7 (Navilock NL-8004P)

Electromagnetic Compatibility

Immunity

- IEC 61000-6-5, environment G

Emissionen

- CISPR22 (EN 55022) , Klasse A

Power supply	
AC	-
DC	12V +/- 30%
Power consumption.	≤ 10 W

We take care of it.

Environmental parameters	Storage and transport	Operation
Ambient temperature : Limit range of operation	IEC 60721-3-1 / 1K5 -40 ... +70°C IEC 60721-3-2 / 2K4 -40 ... +70°C	IEC 60721-3-3 / 3K6 -25 ... +55°C
Ambient temperature : Rated range of operation H1 Rated range of operation H2	---	IEC DIN EN 61010 -25 ... +45°C -25 ... +50°C
Relative humidity: 24h average No condensation or ice	5...95 %	5...95 %
Solar radiations	---	700W/m2
Vibration, earth tremors	IEC 60721-3-1 / 1M1 IEC 60721-3-2 / 2M1	IEC 60721-3-3 / 3M1

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