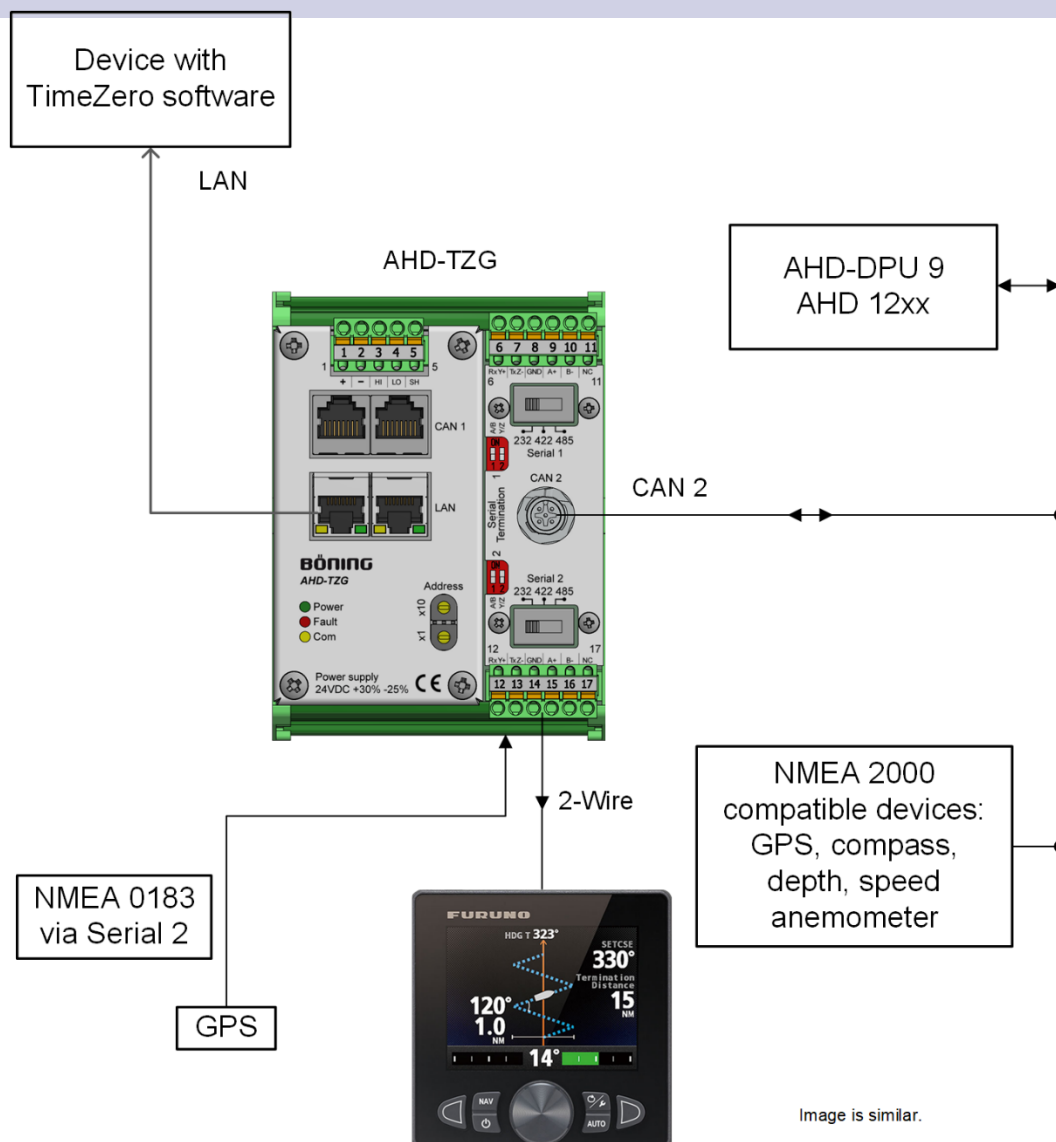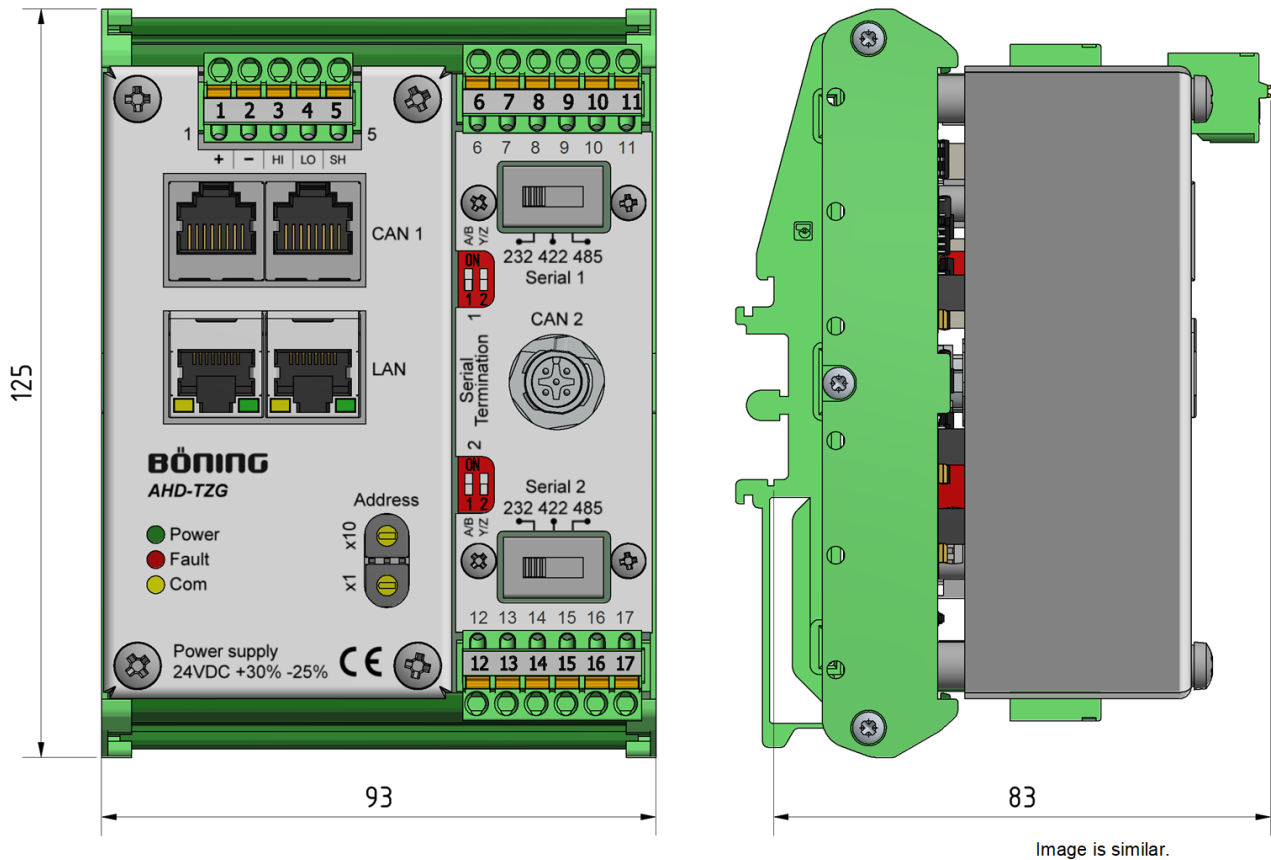- **Data distribution between TimeZero components and NMEA devices**

- **Gateway processes NMEA 2000 or NMEA 0183 protocols**

- **Optional configurations for high flexibility**

AHD-TZG allows the data communication of a TimeZero system with other NMEA components as well as with NMEA 0183 devices, for example Furuno Autopilot.

AHD-TZG can be configured as a gateway to transfer NMEA 2000 or NMEA 0183 data to TimeZero devices.

Alternatively, direct data conversion between the NMEA 2000 network and NMEA0183 devices is possible.

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SHIP AUTOMATION

## Views and Dimensions



### Serial 1 and 2 connections:

| Serial 1 | 6 | 7 | 8 | 9 | 10 | 11 | | Serial 2 | 12 | 13 | 14 | 15 | 16 | 17 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RS232 | TX | RX | GND | NC | NC | - | | RS232 | TX | RX | GND | NC | NC | - |
| RS422 (4wire) | Y+(Tx) | Z-(Tx) | GND | A+(Rx) | B-(Rx) | - | | RS422 (4wire) | A+(Rx) | B-(Rx) | GND | Y+(Tx) | Z-(Tx) | - |
| RS485 (2wire) | NC | NC | GND | A+/Y+ | B-/Z- | - | | RS485 (2wire) | NC | NC | GND | Y+/A+ | Z-/B- | - |

### Technical Data

| | |
|---|---|
| Dimensions | 93 mm x 125 mm x 83 mm (Allow additional height of approximately 80 mm for connectors and wiring) |
| Weight | Ca. 0.4 kg |
| Ambient temperature | -20°C … +60°C |
| Storage temperature | -30°C … +80°C |
| Protection class | IP 22 (front) IP 20 (rear) |
| Power supply | 24 V DC (+30% / -25%) |
| Current consumption | Max. 140 mA (24 V DC) |
| Installation | DIN rail |

| | |
|---|---|
| Interfaces | 2 x CAN CAN 1: 2 x RJ45 IN/OUT and terminals CAN 2: Lumberg (male) Note: CAN 2 and Serial 1 use common internal resources and therefore cannot be used simultaneously! |
| | 1 x LAN: 2 x RJ45 (integrated switch) |
| | 2 x serial (NMEA 0183) on terminal strips) RS 232/422/485 (settable with switch, termination in device with switches) |
| Item number | 18728 |