TELEM GPS Interface

TELEM GPS Interface is used to synchronize time for different Martem devices and RTU's. All data ports are isolated 2.5 kV RMS. TELEM-GPS Interface may also be used to synchronize time for servers or PC's.

Technical data

GPS Interface:

- Communication: RS-232, RS-422, ST or VL optics
- Transmission speed: 9600 bit/s 8N1
- Input voltage: 10-72 VDC
- Power consumption: 70 mA @ 24 VDC (with GPS receiver)
- Indication LED's: sec. pulse, min. pulse, power
- Operating temperature: -30...+55 °C
- Mounting: indoor, DIN 32
- Dimensions: 70 x 85 x 110 mm
- Weight: 140 g

GPS Receiver:

- Acquisition times:
  - ➔ Reacquisition <2 s
  - ➔ Hot ~1 s
  - ➔ Warm ~38 s
  - ➔ Cold ~45 s
- Measurement pulse time: ±1 microsecond at rising edge of pulse
- Protocol: NMEA 0183
- Sensitivity: -185 dBW minimum
- Operating temperature: -30...+80 °C
- Mounting: outdoor
- Cable: fixed length 9,14 m
- Dimensions: 92 mm diameter, 58 mm in height
- Weight: 150 g

Connections

Connectors:

- 1 x DB9F - For GPS receiver
- 1 x RJ12 - Data for PC or controllers (Isolated to 2.5 kV RMS)
- Sync. + Data optics (GW6) - available in ST or VL
- PPS - ST / VL optics
- Min. pulse - Screw terminal

Pinout: RJ12:
1 – TxD+ (RS422)
2 – TxD- (RS422)
3 – Tx (RS232)
4 – Rx (RS232)
5 – Ground
6 – PPS (pulse per second)