



## FAQ GMS-TIM Signal Check

### 1. Introduction

- This procedure describes how to check on a GMS-TIM if it has power and GPS signal.
- 

### 2. Required Tools

- GMS-TIM connected to running GeoSIG Recorder (e.g. GMS or CR series)
  - Phillips (Cross) screwdriver size 2
- 

### 3. Disassembly

- Remove the cover of the GMS-TIM by unscrewing the 4 Phillips screws (some housings are with spring-loaded screws, push and turn 90° to open these)



---

### 4. LED description

- To enable the LED's, make sure the jumper JP2 is mounted (Pins 1-2)



- The PCB is equipped with 4 LED's to indicate the GSM-TIM signal status



- **LED D\_PWR**  
Continuously on if the GSM-TIM is powered.  
If the LED is off, check if the GSM-TIM is connected to the recorder and make sure the recorder is running.  
On some recorders, the power for the GPS can be disabled. Further information can be found in the User Manual of the relevant recorder.
  - **LED D\_1PPS**  
Flashing with a frequency of 1 pulse per second if there is GPS signal.  
For a good GPS signal, at least 75% of the sky should be visible and not blocked by walls, trees or windows.  
After powering the GPS, it can take up to 20 minutes to receive a good signal.
  - **LED D\_TX**  
Transmit signal of GPS (flashing irregularly, can appear as continuously flashing)
  - **LED D\_RX**  
Reception signal from instrument (only active during configuration)
-