

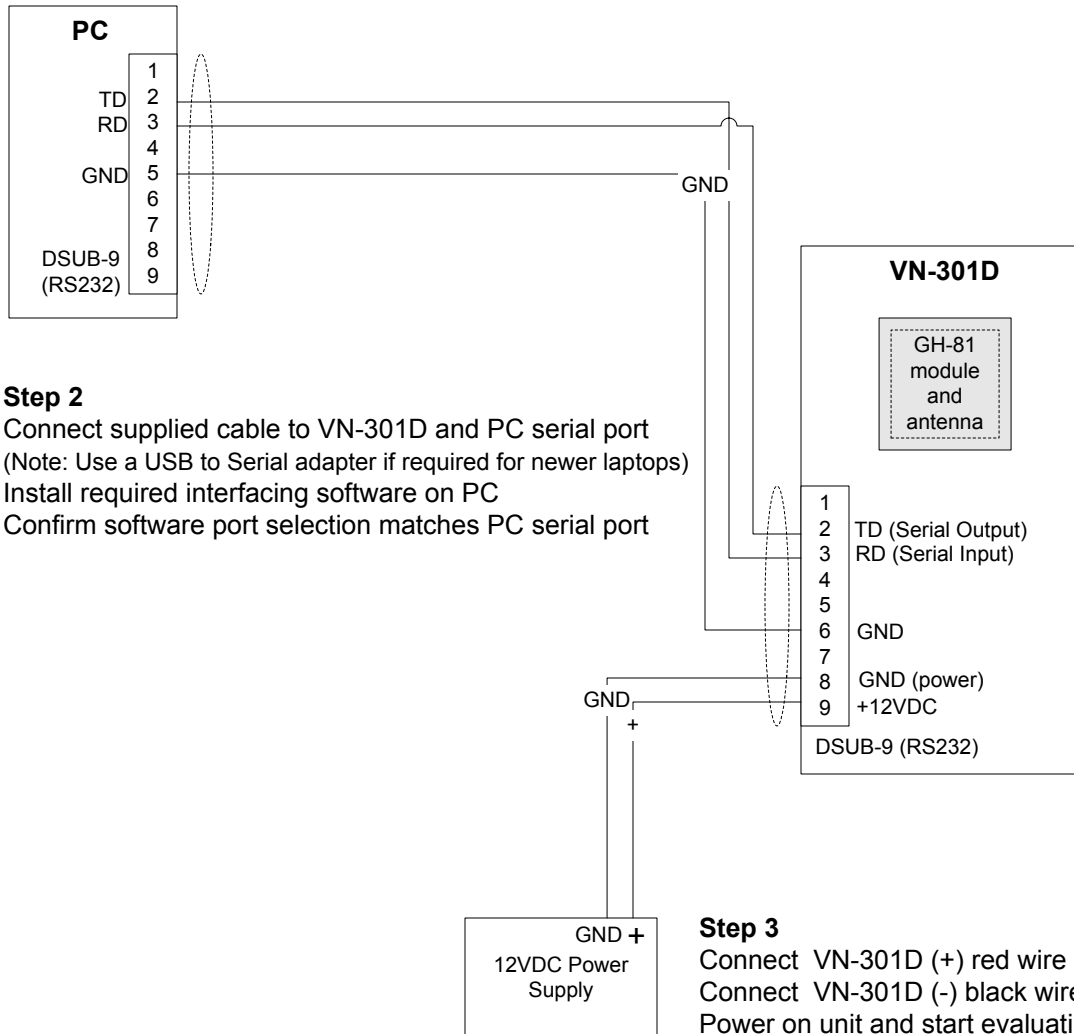
# FURUNO GPS - OEM / Timing Division

## VN-301D (GH-81) Evaluation Kit

### Quick Installation Sheet

#### Step 1

Mount VN-301D with antenna facing up in full view of the satellite constellation



#### Step 2

Connect supplied cable to VN-301D and PC serial port  
 (Note: Use a USB to Serial adapter if required for newer laptops)  
 Install required interfacing software on PC  
 Confirm software port selection matches PC serial port

#### Step 3

Connect VN-301D (+) red wire to power supply (+) terminal  
 Connect VN-301D (-) black wire to power supply (-) terminal  
 Power on unit and start evaluating

#### Application Notes:

12 volt power supply required (regulated @1A or higher)  
 Memory Back-up: >8 years (evaluation kit only)  
 Communication Method: Asynchronous  
 Data Speed: 9600 bps  
 Data Length: 8 bit  
 Parity: None  
 Stop Bit: 1 bit  
 Code: Furuno proprietary (binary) format  
 Signal Line: TD/RD  
 Signal Level: RS232  
 Data: Refer to GH-81 receiver protocol specifications  
**See "Specifications Guide" for more information**

#### GH-81 Parameters

Please refer to the GH-81 specifications for actual design parameters regarding power, sleep modes and back-up voltage requirements, specific data outputs, etc.

Furuno GPS Division		
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