

# Operating Handbook IG-500E quick use with NMEA GPS receivers



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This document explains how to set up the IG-500E for proper NMEA interface. Both electrical and configuration aspects are explained here

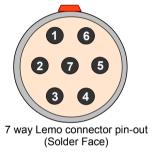
For more information, about the GPS configuration, please check the IG-500E NMEA Integration Manual.

#### **Electrical connections**

For standard RS-232 GPS, the IG-500E should be connected to the GPS as described in the table below.

The pin order is also reminded.

Pin	RS-232 configuration	Color on CA-3M-7- UART cable
1	-	Red
2	GND	Black
3	-	Yellow
4	GPS Rx	Green
5	GPS Tx	Blue
6	-	Brown
7	GPS PPS	White



IG-500E External connector wiring (solder face)

#### **GPS Configuration**

GPS baudrate has to be configured as fast as possible. 115200Bps is good in most situations.

The GPS should be configured to output these sentences at corresponding rates:

- GPGGA @ 5Hz
- GPRMC @ 5Hz
- GPZDA @ 1Hz

#### Optionally:

- GPGSV @ 1Hz
- GPHDT @ 5Hz (for True heading)

No other output is accepted.



# **NMEA** configuration window

Step 1: Enable NMEA device type and select baudrate.

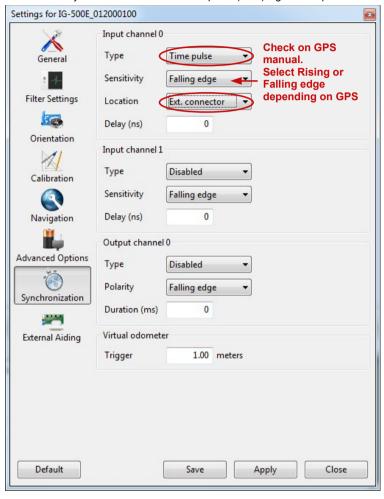


Step 2: Press "Apply" button, and Save button to save settings to flash memory.



#### **GPS Synchronization configuration**

Step 1: Enable GPS synchronization with the time pulse (PPS) signal on input channel 0.



Step 2: Press "Apply" button, and Save button to save settings to flash memory.



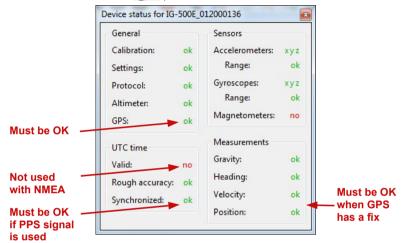
# **Quick configuration check**

Once the NMEA GPS receiver and IG-500E are configured, we can check if the GPS is well recognized by the IG-500E.

Open the device status window



and check that GPS is "OK".



# **Support**

If you have any trouble or question with the use of the IG device, feel free to contact our support team by email, at <a href="mailto:support@sbg-systems.com">support@sbg-systems.com</a>.