

Operating Handbook IG-Devices output configuration



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Operating Handbook



Default IG-Devices configuration does not include all possible outputs. When a graph displays 'No data available' message, then the corresponding output has to be enabled.

Following instructions will help you to configure the IG-Device continuous or triggered output quickly.

This example shows how to enable a regular output, as well as a triggered output on both serial and CAN devices

The sbgCenter is used to configure the products.

Serial devices (Product code -P1/2/4)

Continuous output

This output mode is intended for transmitting data at a fixed rate: (for example 25Hz, or 100Hz).

Step 2: Configure required outputs: Step 1: Set continuous mode: Define default output mask Settings for IG-500N_007000253 Orientation General settings Enable slow slew rate Baud rate 921600 ▼ Time since reset **✓** Ouaternion General UTC Time Matrix User id ▼ Device status Euler angles Filter Settings Output mode settings Magnetos Calib. Real number Byte order Sensors calibrated Float Big endian Sensors raw Orientation ▼ Accelerometers © Fixed C Little endian Accelerometers **▼** Magnetometers Continuous mode settinas Magnetometers **▼** Gyroscopes Calibration Mode Continuous Set output Delta angles Gyroscopes frequency here 50.0 Hz Divider Temperatures **▼** Temperatures Navigation Gyro Temp. Gyro Temp. Output settings Pressure Advanced Ontions Gps raw Default output mask Output Altitude Position Trigger 0 Conditions Output Navigation Synchronization Navigation Trigger 1 Conditions Output Accuracy **▼** Position Trigger 2 Information **V** Velocity Conditions Output Heave External data Trigger 3 Conditions Output Accuracy Gps true heading Nmea output settings Nmea conf Odo velocities Attitude Navigation Ok Cancel Default Save Apply Close

Step 3:

Press Apply button and Save button to save settings in Flash memory.

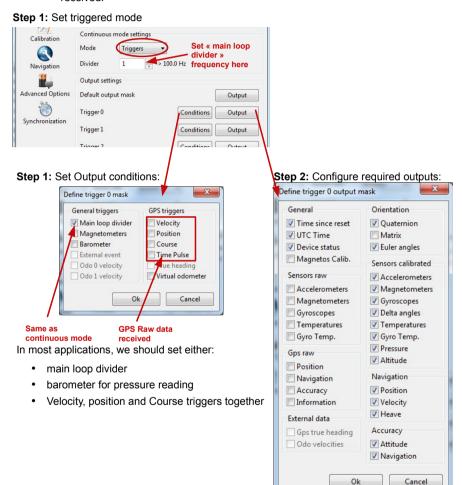
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Triggered output

This mode is designed to get modular data outputs:

- 1. Periodic data, just as the continuous mode
- Data updated when a new GPS raw data is available, or when an external event is received.



Step 3: Repeat Step 2 if other conditions are required and apply these on Trigger 1, 2 or 3.

Step 4: Apply and Save settings



CAN Devices (Product Code -P3)

CAN devices support different output conditions for each output message; Each output has to be configured independently:

Step 1: Configure the output rate (main loop divider)



Step 2: Configure each Configure CAN messages triggers. desired output For each CAN message, you can configure it's trigger mask. Ext. event GPS GPS V SBG_CAN_ID_OUTPUT_TIMESTAMP_TRIGGER SRG CAN ID OUTPUT DEVICE STATUS Quaternion output is SBG_CAN_ID_OUTPUT_UTC_TIME provided when a new main SBG_CAN_ID_OUTPUT_QUATERNION loop divider is triggered SRG CAN ID OUTPUT FULER SBG CAN ID OUTPUT HEADING SBG CAN ID OUTPUT GYROSCOPES Accelerometer output is SBG CAN ID OUTPUT ACCELEROMETERS provided when: SBG_CAN_ID_OUTPUT_MAGNETOMETERS o new GPS raw date is avilable SRG CAN ID OUTPUT TEMPERATURES o an external event (sync In) is SBG CAN ID OUTPUT GYRO TEMPERATURES received. SRG CAN ID OUTPUT POSITION 1 SBG_CAN_ID_OUTPUT_POSITION_2 SBG_CAN_ID_OUTPUT_VELOCITY_1 SBG_CAN_ID_OUTPUT_VELOCITY_2 SBG CAN ID OUTPUT GYROSCOPES RAW SRG CAN ID OUTPUT ACCELEROMETERS RAW SBG_CAN_ID_OUTPUT_MAGNETOMETERS_RAW SBG_CAN_ID_OUTPUT_TEMPERATURES_RAW SBG CAN ID OUTPUT GYRO TEMPERATURES RAW SBG_CAN_ID_OUTPUT_BAROMETER SBG_CAN_ID_OUTPUT_MAG_CALIB_DATA Default Cancel

Step 3: Press "Apply" button, and Save button to save settings to flash memory.

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 support@sbg-systems.com.