



## IMSA TECHNICAL MEMO IWSC #21-02 **REVISED**

To: IMSA WeatherTech SportsCar Championship Competitors

From: IMSA Competition

Date: November 19, 2020

Re: Fuel Flow Sensor Calibration

This Technical Memo pertains to the in-car Fuel Flow Sensors required for DPi, GTLM, and GTD. This Technical Memo does not pertain the autonomous rig fuel level sensor.

As a continuation of the 2020 requirement, all Fuel Flow Sensors are required to have version 2.11A firmware installed. Currently only new sensors shipped to competitors since September 2019 have this firmware update installed. Sentronics is the only authority who can apply this firmware update.

Sensor Calibrations are valid for 150 hours of fuel flow time. IMSA communicates the calibration time remaining for each sensor from the IMSA Scrutineering Logger over CAN. Teams are encouraged to confirm the hours remaining on each sensor. Per the specific Technical Regulations for each class (DPi, GTLM, GTD), sensors must have valid time remaining during the entirety of a Race Event.

~~To help minimize costs to competitors, Sentronics ([jnj@sentronics.com](mailto:jnj@sentronics.com)) have provided a US shipping address and will manage all import/export activities to and from the UK.~~

A strict shipping deadline of November 25<sup>th</sup> **from the US to guarantee delivery to the UK** address supplied on the following pages must be respected (the goods must be received by the end of the day **December 1<sup>st</sup>** or the upgraded units may not be available for the Daytona ROAR. Fuel Flow Sensors are a mandatory requirement per the DPi, GTLM, and GTD Technical Regulations.

Ship sensors directly to:

**Sentronics Limited  
Unit 34, Downtown Business Centre  
Downtown  
Salisbury  
Wiltshire  
SP5 3HU  
United Kingdom**

The attached document from Sentronics ( [jnj@sentronics.com](mailto:jnj@sentronics.com) ) includes the necessary detail required to return the sensor for the firmware update or recalibration. Also attached is the Sentronics 2021 order form for new Fuel Flow Sensors.



## 2021 IMSA Fuel Flow Sensor Order Form

This order form serves to facilitate the re-calibration or upgrade of existing fuel flow sensors for the 2021 race season, or to purchase new stock/additional spares. New entrants for 2021 must also use this form to purchase the IMSA mandated fuel flow sensor.

**\*\*\*IMPORTANT: PLEASE READ THE FOLLOWING BULLET POINTS\*\*\***

>Sentronics will only accept sensors for re-calibration during the prescribed re-calibration windows:

**1<sup>st</sup> Window:** FLOWMETERS MUST BE SHIPPED TO US BY THE 25<sup>TH</sup> OF NOVEMBER 2020 FOR UK DELIVERY BEFORE THE 1<sup>ST</sup> DECEMBER 2020.

**2<sup>nd</sup> Window:** FLOWMETERS MUST BE SHIPPED TO US BY THE 26<sup>TH</sup> OF MARCH 2021 FOR UK DELIVERY BEFORE THE 1<sup>ST</sup> OF APRIL 2021.

>Sensors requiring re-calibration must be shipped to Sentronics as per the 'sending sensor to Sentronics' instructions found on page 3-5 of this document.

>Re-calibration costs must be paid ahead of sensor shipment to Sentronics Ltd.

Team name:

Racing category:

DPI <input type="checkbox"/>	
GTLM <input type="checkbox"/>	GTD <input type="checkbox"/>

Team Engineering contact:

Name:
Email:
Telephone number:

Team Accounts contact:

Name:
Email:
Telephone number:

Invoice Address:

Address Line 1	
Address Line 2	
City	State/Province
Post Code	Country
*Receiver TAX ID No.	

**\*VERY IMPORTANT PLEASE ENSURE THIS FIELD IS COMPLETED**

Shipping address:

Address Line 1	
Address Line 2	
City	State/Province
Post Code	Country

**Order requirements:**

**New Sensor Order\***

Part number	Description	Cost	Quantity Required
ET-100-01*	IMSA Fuel Flow Sensor <b>DPI/GTLM</b>	£3,200.00 GBP sterling (+ Express Shipping)	
ET-200-01*	IMSA Fuel Flow Sensor <b>GTD</b>		

\*Please be aware that Sentronics is discontinuing supply and production of the ET-100 and ET-200 series at the end of 2020. Last time purchases **must** be made ahead of the **25<sup>th</sup> of December 2020**.

Whilst all ET-100 and ET-200 sensors will be fully supported through the 2021 race season, it is our intention that the FlowSonic Sport (HX-100-01) will replace the ET-100 and ET-200 series for the 2022 race season.

**Re-calibration and Firmware Upgrade Order**

Part number	Description	Cost	Quantity Required	Serial Numbers
ET-100-01	IMSA Fuel Flow Sensor <b>DPI/GTLM</b>	£875.00 GBP sterling (+ Express Shipping)		
ET-200-01	IMSA Fuel Flow Sensor <b>GTD</b>			

**Re-calibration Order**

Part number	Description	Cost	Quantity Required	Serial Numbers
ET-100-01	IMSA Fuel Flow Sensor <b>DPI/GTLM</b>	£550.00 GBP sterling (+ Express Shipping)		
ET-200-01	IMSA Fuel Flow Sensor <b>GTD</b>			

**By signing below, I agree to pay for the items selected above at the listed price.**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Payment information**

Order acknowledgements & Proforma Invoices will be issued on receipt of the completed order form.

Payment accepted by bank transfer prior to delivery.

Account name: **Sentronics Client Account**

DUNS No: **21-975-3919**

Account number: **25740334**

BIC/Swift: **NWBKGB2L**

Sort code: **52-21-34**

IBAN: **GB25NWBK52213425740334**

**Shipping Guidelines- Procedure for sending fuel flow sensors for re-calibration to Sentronics Ltd from the USA.****EXPLANATION OF CHARGES**

Owing to changes to UK customs procedures, it is no longer possible to classify shipments of sensors to Sentronics as 'Temporary Imports' or to use Simplified Inward Processing Relief (IPR) to suspend the import Value Added Tax (VAT). This means that from now onwards 20% of the value of the goods must be paid to HMRC (UK tax authority) on each import.

If you send sensors to us with Incoterm 'DDP' (Delivered Duty Paid), then any import VAT and import duty payable will be directly billed to you by the courier company. Note, neither you nor Sentronics can then re-claim the import VAT, so the incoterm 'DDP' is not recommended.

Courier companies such as TNT/UPS also charge a 'deferment processing/brokerage fee', usually costing around 5% of any import VAT payable. The courier company pays the import VAT charge to HMRC on behalf of the customer (to provide a quicker service), and then passes this charge on, plus 5%. Note this 5% charge cannot be avoided or re-claimed.

Whilst Sentronics is willing to pay the UK import VAT (as we are able reclaim it), the 5% 'deferment processing fee' is the responsibility of the customer. If the courier company charges Sentronics for the processing fee, we will pay it, and invoice you for reimbursement of it later.

If you would like Sentronics to pay, and subsequently reclaim, the 20% import VAT, the following procedure must be used: -

**SENDING SENSORS TO SENTRONICS**

It is essential that the following information is included on the commercial invoice (and waybill where appropriate) accompanying any shipment to Sentronics, as it is required for customs clearance.

Please either email or ensure that there is a copy of the commercial invoice inside the box, as any copies provided to the courier company do not accompany the shipment when it is delivered. If we



do not receive the commercial invoice relating to the import into the UK, this may cause delays when returning your sensors.

Note: The commercial/shipping invoice must include a request to 'pre-alert for customs clearance information' with Jamie Jones's details and the Sentronics telephone number and email address;

Tel: 0044 1725 513703

Email: [jj@sentronics.com](mailto:jj@sentronics.com)

**Description of the goods:** Electronic Flow Meter

**Correct HS commodity code for import to the UK:** 9026102100 (which is currently zero-rated for import duty)

**Country of Origin:** UK

**Import Customs Procedure Code:** 40 00 000 (home use, free circulation)

**Unit value and total value:** It is vital that this information is correct. Please use the replacement cost for a new fuel flow sensor, which for a Sentronics FS-100-02 is £3,200 in 2021 – the courier company will use this value for customs declarations unless there are invoices with differing values in with the shipment.

**Unit weight:** e.g. 1kg (one sensor)

**Total weight:** e.g. 4.5kg (four sensors + packaging)

**Reason for import/export:** Permanent (not 'Repair')

**VAT numbers:** of both companies – SENTRONICS VAT number is GB 186 1755 78

**Incoterms:** 'DAP' = delivered at place – Sentronics pays import VAT and re-claims later

**Cost of shipping:** assuming shipment is booked on customer's account

**Details of any insurance costs** - Sentronics terms and conditions state that the responsibility of insuring the sensors lies with the customer, except when sensors are on-site at Sentronics.

**Total declared value:** this must be the sum of the total value of the items (sensors), plus any shipping and insurance costs.

**Name and signature:** there must be a name, signature and job title on the commercial invoice

Since import VAT is payable in the UK, the value of the sensors must satisfy HMRC requirements on how goods are valued for VAT purposes. The rules are complex but for simplicity the replacement value of a **new** sensor should be quoted. Sensors **must not** be declared to UK customs as 'Commercial samples', 'No commercial value' or 'Free of charge', even if there is no change of ownership of the item. Sentronics is legally considered to be the 'importer' of any fuel flow sensors that are sent directly to us from outside the UK, regardless of who has arranged for the shipment. Sentronics may be legally and financially liable for any inaccuracies in the information provided to the courier company, and subsequently to UK customs. If an item is imported with incorrect details,



such as the value or commodity code, we may be required to contact UK customs to rectify the mistake afterwards and there could be a cost involved.

As soon as we have received the delivery, we will contact the courier company to ensure we have copies of the customs declaration paperwork to ensure declarations are correct.

On returning your sensors, we will export them under the same commodity code, 90261021, with customs procedure code 10 00 001 (permanent export).

**All sensors requiring re-calibration should be sent to the following shipping address;**

Sentronics Ltd, Unit 34-35 Downton Business Centre Downton Salisbury, Wiltshire SP5 3HU UNITED KINGDOM
---