



IMSA TECHNICAL MEMO IWSC #23-03

To: All IMSA WeatherTech SportsCar Championship Series LMP2/LMP3 Competitors

From: IMSA Competition

Date: September 21, 2022

Re: 2023 Electronics Update

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LMP2 & LMP3 Classes:

IMSA is implementing updates to the required Series Electronics utilized in the IMSA WeatherTech SportsCar Championship (IWSC) effective from the start of the 2023 season. New electronics improve safety features and resolve obsolescence issues, all while generating efficiencies and adding expandability to current systems. IMSA carefully considers all aspects of Sporting and Technical regulations as it comes to cost sustainability. This memo will serve as a guide to the updates by Class for 2023. The 2023 Technical Regulations by Class will serve as the official requirements. Ordering information for these electronics is included with this memo or will be released as soon it is available.

Changes from 2022 are shown in **RED**.

<u>Equipment</u>	<u>2022</u>	<u>2023+</u>
Leader Light System	MoTeC System	XAP System
		MoTeC System
LMP2 Track Condition Radio	Delphi	MSE
LMP3 Track Condition Radio	MSE	MSE
Fuel Rig Sensor	Reventec Level Sensor	Sentronics RigFlow Sensor
Marshalling Display	N/A	XAP NTX Marshalling Display
LMP2 CMS Safety Light System	Delphi Compatible (yellow label)	MSE Antenna Kit (XAP NTX only)
		MSE Compatible (MoTeC Driver ID only)
LMP3 CMS Safety Light System	MSE Compatible (red label)	MSE Antenna Kit (XAP NTX only)
		MSE Compatible (MoTeC Driver ID only)
Driver ID System	MoTeC Driver ID System	XAP NTX
		MoTeC Driver ID System

Track Condition Radio:

The [MSE Track Condition Radio](#) will be required for all Competitors to purchase and maintain. In comparison to the Delphi radio used in 2022, this radio is smaller, lighter, and does not require anti-vibration mounting bracket. The Delphi Track Condition Radio will not be permitted in IWSC for 2023.

This radio will require an updated [CMS Safety Light System](#).



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Marshalling Display and Driver ID:

The [XAP NTX Marshalling Display](#) provides basic information to the Driver such as Laptime and Driver ID status on a dash display. This is a new system Competitors may choose to opt for however, Competitors may continue to use MoTeC Driver ID system for 2023 season.

Leader Light Panels:

The [XAP Leader Light Panels](#) are designed as a drop-in solution and intended to improve the robustness of the system while reducing the cost of commonly replaced parts.

Voltage and current requirements as well as panel size are consistent with the current IWSC System. The new system requires a single controller which is linked to the two panels.

For 2023, current working MoTeC Leader Light Panels including CAN Isolators are permitted while supplies last. The XAP and MoTeC systems are **not** interchangeable.

Cars choosing to maintain on MoTeC Driver ID system must utilize an MSE Compatible [CMS Safety Light System](#). Cars implementing XAP NTX Marshalling Display will require the [CMS antenna kit](#).

Autonomous Tank Fuel Sensor:

As IMSA seeks continual improvements to our processes and procedures, we have collaborated with Sentronics to supply Fuel Flow Sensors for the Autonomous Tank for all Classes in IWSC. The [Sentronics RigFlow sensor](#) is designed around the common autonomous tank hardware. A new fuel elbow from RPXpress and fuel cable adapter loom from CMS are required for RigFlow integration to the Autonomous Tank. Details on the adapter loom, elbow, and installation are available in the 2023 Technical Regulations.

Some advantages of the new flow sensor include improved measurement performance with included logging configuration for in-shop testing and an annual sensor calibration that is independent of the autonomous tank. This sensor rollout is the second phase of a multiphase update of IMSA's fuel data network and data sharing.

For 2023, the RigFlow sensor is required for all IWSC Classes. The 2022 specification Pit Tank Level sensors are no longer permitted for these Classes. The Rigflow Sensor requires the RPX RigFlow Red Pit Tank Outlet Elbow, available directly from RPX Express (1-828-428-0820).

Questions should be directed to Emily Rivera (emilyrivera@imsa.com)